

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VII 901 N. 5TH STREET KANSAS CITY, KANSAS 66101

OCT 18 2000

REC'D

OCT 27 2000

RESP

MEMORANDUM

Transmittal of Inspection Report - RCRA

FROM:

SUBJECT:

Betty Berry, Chief

ENSV/ARCM

TO:

Cecilia Tapia, Chief

ARTD/RESP

This memorandum transmits the following inspection report conducted by the Environmental Services Division:

Type of Inspection: Complaint investigation	Inspection Date: 6/29-30 and 7/6/00
Inspector: Alma Moreno Lahm	
Facility Name: Gloe Graphics dba Rosse Lithographing	Facility I.D. Number: MOD985805464
Address: 2100 Wyandotte, KCMO 64108	Activity Number:
Facility Activity: lithography	SIC Code:

Multimedia: 1) Was a MM screening checklist completed? Yes

a) Was the MM screening forwarded to another program? Yes. TSCA/EPCRA

2) Was this inspection part of a Level C/D Multimedia Inspection? No

Other participating programs:

Environmental Justice: Was inspection conducted in a potential EJ Area (per MM screening checklist)? No

Small Business Regulatory Enforcement Fairness Act (SBREFA): Was information provided? Yes

Preliminary Findings (list potential regulatory deficiencies):

NOV/NOPF Issued? Yes

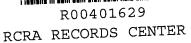
Potential SNC? No

See attached.

Comments: Facility requests a copy of the report. Please send to the attention of Mr. Rosenbrough.

Attachments







RCRA COMPLIANCE EVALUATION INSPECTION REPORT

AT

Gloe Graphics Inc. d/b/a Rosse Lithographing Inc. 2100 Wyandotte, 2nd Floor Kansas City, Missouri 64108 (816) 842-4669 EPA ID Number: MOD985805464

ON

June 29 -30, July 3, July 6, 2000

BY

U.S. ENVIRONMENTAL PROTECTION AGENCY
Region VII
Environmental Services Division

1.0 INTRODUCTION

The Air, RCRA, and Toxics Division (ARTD) requested a complaint investigation be conducted at Gloe Graphics Inc. d/b/a Rosse Lithographing Inc. in Kansas City, Missouri. The March 17, 2000 complaint alleged "liquid substances leaking through the ceiling of the 2100 Wyandotte Street facility ... located directly beneath part of the Gloe Graphics, Inc., d/b/a Rosse Lithographing Company operation ..." and provided the "test results of the milky aqueous liquid sample taken from around the pipe" at the building, and "the analytical results for the soil samples received on July 6, 1998." A Resource Conservation and Recovery Act (RCRA) Compliance Evaluation Inspection (CEI) with an emphasis on the complaint was conducted on June 29 - July 6, 2000. The CEI was conducted under the authority of Section 3007 of RCRA, as amended. The CEI was conducted as a Level B Multimedia Inspection and a Multimedia Screening Checklist was completed (attachment 2). This report present the results of the CEI.

2.0 PARTICIPANTS

Gloe Graphics Inc. d/b/a Rosse Lithographing Inc (Rosse): Hank Rosebrough, Plant Manager Brian Gloe, Co-Chief Executive Officer Greg Edwards, Product Coordinator Michael Smedley, Pre-Press Foreman

U.S. Environmental Protection Agency (EPA): Alma Moreno Lahm, Environmental Engineer

3.0 INSPECTION PROCEDURES

Upon arrival at Rosse on June 29, 2000, I requested to speak to Mr. Brian Gloe, the facility contact listed in the latest notification information as obtained from the Missouri Department of Natural Resources (MDNR) and the EPA. I spoke to Mr. Gloe and he informed me that I would also need to talk to Mr. Hank Rosebrough, the Plant Manager. Since Mr. Rosebrough was not available at the time, I began the inspection with Mr. Gloe and later repeated the entry briefing with Mr. Rosebrough. I presented Mr. Gloe (and later Mr. Rosebrough) with my EPA credentials and explained that I was there to conduct a RCRA CEI and a multimedia screening inspection. I explained the authority under which I would be conducting the CEI, the purpose of the inspection and the procedures I would follow. I explained to Mr. Gloe (and later Mr. Rosebrough) my need to collect information and his responsibility to provide accurate information. I showed him (and later Mr. Rosebrough) a copy of Section 1001 and 1002 U.S.C., reading and stressing the two sections I highlighted that cover the consequences of not being truthful and forthcoming with information. I handed Mr. Gloe (and later Mr. Rosebrough) the copy, allowed him to read the highlighted portions I had just read, and I offered to answer any questions. I explained his right to claim confidentiality for business information (CBI) and allowed him to read the Confidentiality Notice. I asked Mr. Gloe (and later Mr. Rosebrough) to identify any personal safety considerations. Both identified that I might want to wear safety glasses, but that it was not required. I explained that my findings are based on my initial observations and that my inspection findings might differ when I wrote the report. I then proceeded with the inspection.

The CEI consisted of a discussion of facility operations, waste generation, and waste management practices. I conducted a review of waste management records and a visual inspection of waste management areas. In doing this, I also spoke to Mr. Greg Edwards and Mr. Michael Smedley. I repeated the entry briefing, as discussed above, with each of them. Mr. Edwards' duties as the Product Coordinator include waste management, but he has only had this responsibility for about 2-1/2 months. Mr. Cody Cochran was previously responsible for waste management. The waste profiling was done during Mr. Cochran's tenure, but Mr. Edwards assisted him, so he is familiar with what occurred. Mr. Edwards told me that sampling was done for the profiling by the environmental company hired by Rosse to dispose of their waste, Millenium Environmental Inc. - MO (MEI-MO) of Scott City, Missouri. He said sampling was done because MEI-MO questioned the profiling responses provided by Rosse. Mr. Smedley, the person most familiar with the plate making process covered that portion of the inspection.

The complaint investigation portion of the CEI consisted of my conversations with Superfund personnel who provided me with the complaint and sample results which they said had been provided to the RCRA compliance officer (attachment 2), conversations with Mr. Charlie Troppito (attachment 3 and 4), and investigation of the alleged leak. Due to the allegations implying potential illegal disposal, my inspection included a thorough review of processes and MSDS information for all material purchases to assure that all waste streams generated were being properly disposed.

At the conclusion of the CEI and complaint investigation, I summarized my findings and answered questions at the exit briefing. Mr. Gloe attended the exit briefing for a few minutes and Mr. Rosebrough attended in its entirety. I gave Mr. Rosebrough a Request for Confidential Treatment Form and a Receipt for Documents and Samples, which he signed as acknowledgment of receipt (attachments 5 and 6). A confidentiality claim was made during the time of the inspection. I noted violations at the time of the inspection and I provided Mr. Rosebrough with a Notice of Violation (NOV) which he signed as acknowledgment of receipt (attachment 7).

I provided compliance assistance to Mr. Rosebrough to help him understand the regulations. I explained to him that MDNR regulations make a generator subject to small quantity generator (SQG) requirements if 100 kilograms (kg) of hazardous waste is accumulated at any one time, even if the monthly generator rates are less than 100 kg. I made a copy of my MDNR RCRA regulations, provided it to him and highlighted relevant portions that he needs to focus on. I also provided him with a used oil handout, the U.S. EPA Small Business Resources handout, and answered his questions. Mr. Rosebrough requested a copy of the inspection report and additional information relevant to the printing industry, if available.

4.0 FACILITY & PROCESS DESCRIPTION

Rosse, owned by brothers Brian and Keith Gloe, is located at 2100 Wyandotte, where Rosse leases the 2nd and 5th floors of the building from building owners Sam and Linda Long. Rosse Lithographing Inc., founded in 1961, began operating at this location in 1991. Gloe Graphics Inc. was founded in 1988. From 1988 to 1992, the businesses of Gloe Graphics Inc. and Rosse Lithographing Inc. were consolidated. In 1992, in purely a paperwork transaction, not a sale, the two businesses were merged into one entity. From that point on, Gloe Graphics Inc. began doing business as Rosse Lithographing Inc., referred to as Rosse in this report.

The company occupies about 50,000 square feet, employs 62 people, and operates Monday through Friday, using three shifts for operations from 6:00 am - 2:00 pm, 2:00 pm - 10 pm and 10:00 pm - 6 am. The office hours are from 8:00 am - 5:00 pm. Weekend work is done only on an as needed basis. A newspaper article released after the inspection (attachment 8) contains a photograph of the facility's northeast corner. The northeast overhead door mentioned in subsequent photos is pictured in the newspaper article photograph. The article is included in this report to provide the reader perspective.

Rosse is a lithographic business which prints various materials (magnets, photos, cards, etc.) and documents using off-set lithography machines. Major raw materials used are primarily paper and ink, plus film. The standard industrial code (SIC code) that applies to Rosse is 2752.

The process operations consist of: film being developed and used to make plates; the plates, ink and paper used on a press to create printed material; and the printed material being cut, folded, stitched, and packaged for delivery to the customer. Printing is done by hanging the plate on the cylinder and putting it on the machine. Ink and water are put onto the plate. Water (without

<u>alcohol</u>) keeps the non-image area clean. Ink creates the image. The image is transferred from the plate to a rubber blanket which is on another cylinder. The blanket can be thought of like a stamp. The blanket transfers the image onto the paper as it passes between the blanket and the impression cylinder.

5.0 AREAS VISUALLY INSPECTED

I inspected all Rosse operations areas, and marked the satellite/ storage accumulation areas on the facility map (attachment 9). Areas where apparent violations were noted are discussed below.

6.0 FINDINGS AND OBSERVATIONS

6.1 RCRA Status

Rosse submitted a Notification of Hazardous Waste Activity and indicated the facility generates D001 hazardous waste in small quantity generator quantities. To determine and verify waste stream generation rates and generator status, I discussed all waste streams with Mr. Rosebrough. I reviewed records requirements such as generator hazardous waste summary reports, manifests with associated paperwork, tolling agreements with associated paperwork, contingency items, and training records.

Based on that review and information collected during the RCRA CEI, it appears Rosse routinely generates hazardous waste at SQG quantities. I inspected Rosse as a SQG of hazardous waste. I completed the compiled checklist (attachment 10), and the EPA RCRIS Handler Information Report (attachment 11).

6.2 Wastes Generated On-site and Associated Violations

Lithography activities are the main sources of the facility's hazardous waste. The waste streams routinely generated by Rosse are listed below. Only the first one listed is a hazardous waste. However, due to the allegation and sampling results raising the concern for potential illegal disposal, details are provided on all the raw materials used and waste streams generated. Waste stream information provided in the table below was provided by Mr.Rosebrough, unless otherwise noted. During the inspection, Mr. Rosebrough attempted to answer my questions regarding the waste streams, but he did not have all the information available. He repeatedly attempted to obtain the information, but with the July 4th Holiday, his vendor contacts were not available. After the inspection, Mr. Rosebrough sent me some documentation that he had committed to sending me during the exit briefing, via facsimiles (attachments 12 and 13).

#	NAME	GENERATING PROCESS	HAZARDOUS DETERMINATION	ESTIMATED GENERA- TION RATE	ON-SITE MANAGEMENT	OFF-SITE MANAGE- MENT
	Blanket wash and water	Blanket wash and water is a water miscible wash referred to simply as "blanket wash". It is 85 % blanket wash and 15% water, a clear liquid (photo 1), and its density is 6.74 pounds per gallon. VWM is the Varn Products product name for the wash that was used before. Currently #04855 Blanket Wash (MSDS in attachment 14-1 thru 14-5) is used. Still, the name VWM is customarily used at Rosse. As of 11/98 this waste is generated from the new press which has an automatic blanket washer. The automatic blanket wash cleans the blanket. The new press was installed in the Summer of 1998, but it was not put into service until 11/98. Blanket wash is not generated from the old presses, 640 press and 240 press (attachment 9-1). See 2 nd paragraph under Generating Process in waste stream #2 for details. Photo 2 shows a view of the insides of the 240 press.	D001 hazardous waste for ignitability per testing (attachment 15, 12/10/99 authorization letter and waste profile). Blanket wash is listed as "Waste Petroleum Distillates" in the letter and the manifests (attachment 16). Since the MSDS in attachment 14 does not list the actual ingredient concentrations, I contacted Thompson Chemicals & Solvents on 7/3/2000. The information, provided to me as CBI is not in this report. I concluded based on the information provided that the solvent is not a listed waste and is ignitable (D001).	Generate ~ 1.6 drums per month. Based on composition, the density was calculated to be ~6.90 pounds per gallon. This calculates at ~607 pounds per month or 276 kilograms per month.	The automatic blanket wash cleans the blanket and discharges the wash and water mixture directly into a blue metal 55-gallon drum. When full, the drum is transferred to the 5th floor for storage. Mr. Rosebrough and Mr. Edwards told me the drums are labeled by the waste hauler when they pick up.	The waste is picked up by Millenium Environmental Inc MO (MEI-MO) in Scott City, Missouri. See manifests in attachment 16. See pricing proposal in attachment 17.

NOV #4 - Storage Container of D001 Blanket Wash and Water Not Labeled or Marked per DOT - During the facility tour of the 5th floor storage accumulation area, I observed one 55-gallon blue metal drum that was closed, but was not properly labeled (Photos 3, 4, and 5). Failure to properly package/label/mark waste containers per DOT during the entire on-site storage period is in violation of 10 CSR 25-5.262(2)(C)1.

NOV #5 & #6 - Storage Container of D001 Blanket Wash and Water Not Marked with the Date of Accumulation and Not Clearly Marked "Hazardous Waste" - During the facility tour of the storage accumulation area on the 5th floor, I observed one 55-gallon blue metal drum that was closed, but was not marked with the date of accumulation and was not marked with the words "Hazardous Waste" (Photos 3, 4, and 5) in violation of 10 CSR 25-5.262(1) incorporating 10 CFR 262.34(d)(4) referencing 40 CFR 262.34(a)(2) and (3).

NOV #7 - Satellite Accumulation Container of D001 Blanket Wash Not Closed - During the facility tour I observed a satellite accumulation container near the new press. The top of the drum was labeled with the contents (photo 6). However, the bunge hole where the blanket wash inlet hose enter the drum was not closed or properly sealed (photo 7). Mr. Rosebrough explained that since the blanket wash is automatically generated from the machine based on a preset number of work items and press conditions, and that point is automatically determined by the machine and unpredictable, the hose needs to be permanently in place in the bunge hole. Also, he explained that the satellite drum where the blanket wash is collected is pumped in under pressure. Thus the bunge hole was not sealed because if it was the contents would back up and shut down the press. We discussed how modifications could be made to accommodate both needs. Failure to keep satellite accumulation containers of hazardous waste closed is in violation of 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(2) referencing 40 CFR 265.173(a).

NOV #3 - Storage of D001 Blanket Wash and Water Over 90 Days (erroneously listed 270 days on NOV) - I identified a gap in manifests. When I asked Mr. Rosebrough for additional manifests, he told me there were no more. He checked the Vendor History Reports (attachment 18) and determined there were no shipments from 12/4/97 to 9/27/99. Mr. Rosebrough and I estimated (attachment 19) based on the generation rate, that Rosse became a large quantity generator (LQG) per MDNR regulations between February and March 1999, when 1000 kg of this waste were accumulated on-site. After that point, any waste generated became subject to 90 days storage, until Rosse went below the 1000 kg accumulation limit (~ 5 drums). Over that period when Rosse was an LQG, four drums generated in different months were stored in the range of one to three months over 90 days, in violation of 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(e).

Used shop rags are generated from cleaning off ink on the press or liquids that seep (oil) or solid (lint and dust) that accumulates as part of the normal operating process. Rags with Film Kleen (attachment 14-6 thru 14-10, MSDS) are used to wipe off particles on the plates in the plate-making process. Rags with Color Wash Step -1 (attachment 14-11 thru 14-13, MSDS) are used to clean the rollers.	Unknown. Mr. Rosebrough attempted to get this information from his vendor, but the vendor	The rags are placed in a 55-gallon barrel or small 5-gallon cans at the points of generation (photo 8). They are picked up	Walker Towel & Uniform Service (attachment 20, agreement) in Kansas City,
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#	NAME	GENERATING PROCESS	HAZARDOUS DETERMINATION	ESTIMATED GENERA- TION RATE	ON-SITE MANAGEMENT	OFF-SITE MANAGE- MENT
		Blankets are cleaned manually with a rag that has Lacolene (MSDS in attachment 14-14 thru 14-17) put on it. Thus, Lacolene is called "blanket wash".		did not return his phone calls.	from the points of generation for laundering.	MO launders. The contact is David Shapiro.
3	Fluores- cent Light Bulbs	Fluorescent light bulbs are generated when lamps are changed in the office space and plant They use 4 feet and 8 feet long bulbs. They use special color correcting lights by Just Norlich in the production space and regular office light bulbs.	The regular office light bulbs are non-hazardous based on the MSDS (attachment 12-4 thru 12-9). However, the Just Norlich lamps, could potentially be hazardous for mercury (attachment 21).	Rosse generates 24, 8 feet bulbs per month and one 4 feet bulb per month, per Mr. Edwards.	Light bulbs are thrown in the trash.	Trash pickup is done by Deffenbaugh.
wnei	ner ine light bi	to Make a Hazardous Waste Determination - During the inspection Mr albs would be hazardous or not. He was not even aware that fluorescent lizardous waste determination on the spent fluorescent light bulbs in violation.	ight bulbs could be potentially hazardous s	SDS for the fluoresc so we had a discussi	ent light bulbs used and on about this. Therefore	could not tell me I cited Rosse for
4	Spent Inks & Expired Inks	Spent inks are generated when color changes are made between jobs and there is leftover inks from the current job. Not every job requires ink changes and changes are minimized as much as possible. Per Mr. Gloe, many inks are soy based. Expired inks are dealt with the same way as spent inks.	Non-hazardous based on product, process knowledge and testing. Mr. Rosebrough also stated that the spent inks are not hazardous per PIA, the Printing Industry Association. Most inks used are covered by the Toyo Ink MSDS (attachment 14-18 thru 14-20). Only M/C-T X/S Pantone (R) Warm Red (attachment 12-24 thru 12-25) has a TCLP constituent (Barium). Whether it leaches and fails TCLP depends on the pigment concentration. It is one of many inks used in smaller quantity. Waste profiling and sampling were done by MEI-MO and it tested non-hazardous (attachment 22). I conclude the inks are not hazardous.	The rate of generation was estimated to be less than 55-gallons per month. Mr. Edwards estimated one drum is generated about every 1-1/2 months to 3 months.	When spent inks are generated from the presses, they are placed in a central 55-gallon drum in the shop floor. Expired inks are managed likewise. Ink container contents are emptied into a 55-gallon drum. When the drum is full, it is transferred to the 5th floor for storage (photos 9, 10, 11 and 12). When 4 or 5 drums are collected the disposal company is called for pickup.	MEI-MO picks up the waste manifested as not DOT regulated and non-hazardous (attachment 16). There were no shipments from 12/4/97 to 9/27/99 (attachment 23, Quarterly Report), so 16 drums were manifested on 9/28/99 (attachment 14-10).
5	Used Oil	Used oil is generated out of the presses where it is used as a lubricant. The lubricating oil is removed every year to 1-1/2 years. However, Mr. Edwards who is responsible for waste management told me indirectly that the oil from the presses is changed every 6 months. This is how I obtained the information: I asked Mr. Edwards why 13 drums were shipped on 10/27/99. He told me he orders 3-55 gallon drums of oil at a time. He said he orders ~ 6 drums per year. (From	The press machine oil was determined to be used oil by process knowledge and testing (attachment 14-5 and 14-6, authorization letter and profile).	One drum of used oil is generated per year per press. There are three presses. It is generated all at once over a one	Used oil is pumped into a 55-gallon drum directly from the press using a hose (photos 13 and 14), then stored on 5th floor. At pick up time, the drum is	As of 9/99 this waste has been picked up by MEI-MO. It is listed on the manifest as non-RCRA regulated

#	NAME	GENERATING PROCESS	HAZARDOUS DETERMINATION	ESTIMATED GENERA- TION RATE	ON-SITE MANAGEMENT	OFF-SITE MANAGE- MENT
		12/4/97 to 9/9/27/99 there were no wastes manifested off-site.) He said at the time of the shipment, there was one or two drums that had the caps off and they did not want to take any chances, so they shipped them off as used oil. He said that might explain the 13 drums.		hour period.	taken to the dock on 1st floor. Used oil is pumped from the drum to the truck by MEI-MO and the drum is left for reuse.	machine oil (attachment 16-12). Mr. Rosebrough is not sure what MEI-MO does with the oil.

NOV #14 - Failure to Clean Up Used Oil Spill - In following up on the complaint portion of the investigation, I attempted to find evidence of the alleged "liquid substances leaking through the ceiling of the 2100 Wyandotte Street facility ... located directly beneath part of the Gloe Graphics, Inc. d/b/a Rosse Lithographing Company operation" (attachment 2). I photographed what appeared to be a spill with kitty litter sprinkled on it on the 1st floor of the building beneath part of the Rosse operation (photo 15). I also photographed pipes in the ceiling area near the spill and kitty litter on the 1st floor of the building (photo 16). No leak there or nearby was apparent. In addition, the space occupied by Rosse is extensive (50,000 square feet of leased space, although not all on 2nd floor), with numerous pipes throughout the 1st floor ceiling and with no information in the complaint (attachment 2) to limit the area to focus on, it was near impossible to locate a potential leak. Therefore, I photographed what was in the area above the only visible spill on the floor. Although it is simply conduits, it was the pipes in the area. In hopes of narrowing down the area to focus on and enhance the possibility of locating the potential leak, on 7/3/2000 I attempted to contact every attorney and the receptionist at The Session Law Firm, but no one was available. Therefore I called Kingston Environmental Services, Inc. (who provided the test results) and was able to speak to Mr. Charlie Troppito. Based on a conversation with Mr. Troppito on 7/3/2000 (attachment 3), I was led to believe that I needed to be looking two parking spaces over for a pipe that had leaked about 10 - 15 feet west of the east wall. I took two photographs of the sewer line (photos 17 and 18), which was the only pipe in the vicinity that showed any signs of staining which could be indicative of a past leak. Since I was not confident the leak was originating from either of these sources photographed and Mr. Troppito had initially offered to meet me at the building to help me locate the pipe, I contacted Mr. Troppito on 7/5/2000 to ask for his assistance. We agreed to meet at the 1st floor of the building. I told him I also had "analytical results for soils samples" (attachment 2), and asked him where and how the samples were taken. He told me the sample was "scraped off the floor where it had dripped off the pipe." Once we met at the building, I showed Mr. Troppito the ceiling area based on his description and how I could not find any real sign of a leak based on his description. He looked at the ceiling and pipes and stated that perhaps he was mistaken on the direction of the pipe. He explained it had been some years since the sampling was done. We then looked around together in the ceiling space nearby and he suggested that the leak was from the pipe shown in photo 19. He pointed out how the pipe appeared moist, so I asked him to hold the flashlight focusing on that area and I photographed it. I explained how I had learned from the facility representative that the particular pipe he was pointing out was a sewer pipe, and that it didn't make sense that particular pipe would have leaked, given the sample results I had received for the liquid sample. I told him I thought it also would have really stunk given it was a sewer pipe in such an old building, and that I did not understand how it would have been sampled. I then asked him exactly where and how the sampling was done. He told me he had not actually taken the sample himself, so he did not know. We proceeded to leave the building, and as we left, he told me how he had become involved in the sampling (attachment 4). He said the "building owners' attorney called to say people were complaining that they would park cars in the 1st and 2nd spot and would get drippage on the paint and the paint would discolor and peel". He was asked to take samples. On 7/6/2000, with Mr. Rosebrough's help in locating the area below the production area and in lighting the ceiling with a flashlight, I was able to locate a leak along the ceiling of the 1st floor of the building (photos18 thru 30). I also observed moisture along the ceiling just southwest of the area with the leak and in line with a pipe closest to the ceiling (photos 19, and 33 thru 35). The area with the moisture along the ceiling is almost directly below the sink on the 2nd floor. (See subsequent photos related to the leak on the building's 2nd floor.) I also photographed the spill with kitty litter sprinkled on it on the parking lot floor (photo 36). I then went to the 2nd floor and was able to trace the leak on the 1st floor to a spill originating from the machine oil pump of the 640 Press (Old Press). See attachment 8-1 for the location. I took photographs of the 640 Press (photos 37 and 38) to show that it is located directly above the area with the ceiling leak/ floor spill on the building's 1st floor. I observed a used oil leak from the routine/ normal operation of a pump associated with the old press and rags placed on the floor being used in an attempt to contain the leak (photos 39 thru 40). It appears that used oil spilled on the floor of the building's 2nd floor from routine/ normal operation of equipment has leaked through the ceiling on the building's 1st floor and spilled onto the floor of the building's 1st floor. Rosse does not have access to the ceiling or the floor on the 1st floor of the building, since Rosse only leases the 2st floor. Mr. Rosebrough and Mr. Gloe both told me that they have repeatedly attempted to clean the spill on the 1st floor but have been denied access by the building owner. They explained that a person representing the building owner places kitty litter on the spill on the floor of the building's 1st floor, absorbs the spill with the kitty litter, then picks it up and places the contaminated kitty litter in the general trash dumpster. Rosse does have access to clean the leak of used oil on the 2nd floor of the building. Failure to clean up used oil spilled on the floor of the building's 2nd floor is in violation of 10 CSR 25-11.279(1) incorporating 40 CFR 279.22(d).

NOV #17 - Failure to Properly Label Drum of Used Oil - During the facility tour on 7/6/2000, I observed a 55-gallon drum of VWM Wash that had used oil in it. The container was labeled "waste oil", but not "used oil" (photo 41) in violation of 10 CSR 25-11.279(1) incorporating 40 CFR 279.22(c)(1).

#	NAME	GENERATING PROCESS	HAZARDOUS DETERMINATION	ESTIMATED GENERA- TION RATE	ON-SITE MANAGEMENT	OFF-SITE MANAGE- MENT
6	Blankets	A blanket is a dry rubbery sheet that is hung on a cylinder between the plate cylinder and the impression cylinder. It picks up the ink from the plate and then transfers the image to the paper as it passes between the blanket and the impression cylinder. The blankets are eventually removed and thrown in the trash.	Non-hazardous based on product and process knowledge.	Unknown rate. They buy 36 blankets per month, but not all are used before buy next.	They are placed directly into the dumpster in the shop floor. They are then compacted on the 1st floor in the back.	Deffenbaugh picks up the general trash
7	Old Film	Film is used to burn the image on the photosensitive plate for printing. Film has to be kept for 5 years. It is tracked by job number. During slow periods in production, Rosse takes the film over 5 years old and separates it on a skid to be picked up by the recycler.	Old film is recycled for silver recovery and is excluded per Part 261.6.	Generate ~1000 pounds each time, but period varies. Last pickup was 4 to 5 months ago.	Old film is placed in a fiber drum (photo 42) or on a skid for pickup by recycler.	Girard Silver Recovery in Lee's Summi Missouri (attachment 13-3) picks u
8	Aluminum Plates	A plate has a red photosensitive coating. The film is placed over the plate. Light hits the film and hardens the red coating to create the image on the plate. The plate is run through a plate processor that removes the excess coating and yields the non-image area of the plate. When they are no longer needed and cannot be reused, aluminum plates become a waste.	Aluminum plates are recycled for the aluminum, excluded per Part 261.6.	742 pounds are generated per 6 months	The aluminum plates are placed in a gaylord.	KC Iron & Metal, locate at 1411 East 19 th Street in Kansas City, Missouri, recycles it.
9	Spent Developer, Fixer & Rinsewater	Spent developer, fixer and rinsewater are generated from the film development process from a Kodak owned machine. Kodak Prof Aqua-Image Negative Developer, RA2000 Developer and Replenisher, Negative Developer Finisher, 3000 Fixer and Replenisher, Processor Cleaner, and 3M Color Proofing III Developer Concentrate - Yellow, Magenta, Cyan and Black are the products used (attachment 14-49 thru 14-58, MSDS).	Non-hazardous based on product and process knowledge per Kodak manufacturer. Also, it is excluded as a solid waste per Part 261.4 since it is discharged to the sewer that passes through a POTW.	Unknown	The spent developer is sent directly to the reclamation unit (photo 43) for silver reclamation. After reclamation, the spent developer, fixer and rinsewater go directly to the sewer (photos 43 and 44).	Kansas City, Missouri POTW
10	Rinsewater and Sponges with Plate Cleaners	In the plate development process mentioned above a cleaner/ preserver is applied with a sponge to clean the non-image areas that are <u>not</u> repelling ink; the plate areas that hold water are desensitized so the ink does not "scum" into the non-image areas. Plate Nu, Petro Gum, or On the Fly are used. The sponge is rinsed and squeezed out into a bucket of water. The sponge is rinsed and reused, but occasionally replaced and generated as a waste.	Non-hazardous based on product and process knowledge, see MSDS (attachments 14-21 thru 14-26). The rinsewater is excluded per Part 261.4 since it is drained into the sink and passes through a POTW.	It is estimated at most, about 2 sponges are generated per year, and at least once every 4 years.	The water is disposed down the sink drain. Sponges are occasionally thrown in the general trash.	Kansas City, Missouri POTW handl the rinsewate Deffenbaugh picks up the general trash.
11	Spent Press Filters	Flat filters, 11" by 17", used to collect paper dust particles and ink particles in the recirculating water, become a waste when replaced.	Non-hazardous based on product and process knowledge.	Unknown	They are thrown directly in the trash.	Deffenbaugh picks up trash

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6.3 Wastes No Longer Generated but Generated in the Recent Past

Since the sampling results provided with the complaint raised the concern for potential illegal disposal and the samples were taken in 1998, I had to investigate all the raw materials used and waste streams generated during that time period. While reviewing manifests, waste authorizations and profiles, and MSDS information, I noticed some waste streams that had not been identified as being generated. I discussed them with Mr. Edwards and Mr. Rosebrough and found that they are no longer generated, but had been generated during the period in question. I was particularly concerned with the dampening solution (profile waste #2) and etching solution (profile waste #4) (attachments 24-4 and 24-8, respectively). The dampening solution and the etching solution waste profiles indicated TCLP levels for silver that would have made the waste D011 characteristic. Yet these wastes were manifested off-site on 10/27/99 as D001 and non-regulated, respectively. Failure to make an adequate hazardous waste determination on the dampening solution and the etching solution is in violation of 10 CSR 25-5.262(1) incorporating 40 CFR 262.11. (NOV #2)

Mr. Rosebrough told me that Dampening Solution 9010 (MSDS in attachment 14-27 thru 14-30) was an additive to the Genesis etching solution (MSDS in attachment 14-31 thru 14-35). He said the combination was a replacement for an alcohol solution. Mr. Gloe had told me earlier that sometime in 1989 to 1990 Rosse had switched to the aqueous plates from the plates that would be used with alcohol. Mr. Rosebrough told me that the Genesis etching solution was used on the 240 press for about 1-1/2 to 2 years. He said as they started to use the 240 press less and less since it only prints two colors, they started using the Genesis etching solution less and less, so they decided to eliminate it. It was changed to a one step solution several years ago. In 1999, Rosse got rid of an unused partial barrel of Dampening Solution 9010 (product).

Anchor Emerald Premium DAQ (MSDS in attachment 14-36 thru 14-40) is the new etching solution. It is used straight or with water to keep ink off the plate. The etching solution goes in the machine. A rubber blade pulls ink off the blanket so the blanket is clean before it gets ink on it again. Then the etching solution breaks down the ink, so it does not gunk up the machine. It is never generated as a waste because it is soaked up in the paper and evaporates a bit in the machine. The machine is set up to automatically add in more etching solution as needed.

An old press was removed about the same time the new press was installed, in the Summer of 1998. The old press used Glycol Ether EP (MSDS in attachment 14-41 thru 14-43) as a coolant. Glycol Ether EP is 99% ethylene glycol. Glycol Ether EP is no longer used now and it was never generated as a waste. Dowtherm is the new coolant (attachment 12-16 thru 12-21) used in the new press. It is mixed at 25% Dowtherm to 75% water or 50% Dowtherm to 50% water. However, the cooling system is a closed system that only requires replenishing of coolant, so Dowtherm is not routinely generated as a waste.

Aqueous coating CK-303 (MSDS in attachment 14-44 thru 14-45) is one of the wastes listed in the profiles. Mr. Rosebrough told me this is not a routinely generated waste. He said the only

way this waste would be generated is if the aqueous coating were contaminated with something. He said maybe that is why it is listed in the profile with water-based coolant, because he cannot think of any water-based coolant used. He told me this is a coating that is applied on styrene type materials that are printed as a coating. An example of this is magnets that have game schedules or business name and phone number listed on the magnets.

Pure Gum Arabic 14 BE (MSDS in attachment 14-46 thru 14-48) is put in the water used in the press (to keep ink away from the non-image portions of the plate). The water is recirculated, filtered and chilled for use. It is not generated as a waste.

In the past, Rosse used to work expired inks into the black ink. However in May 2000, they switched vendors and therefore decided to dispose of the expired inks instead. One drum of expired inks was generated and manifested off-site (attachment 14-17).

I was also told that the drum of Petroleum Distillate manifested on 10/27/99 (attachment 16-12) was for a mixture of used oil and water from a line rupture. The pipe that supposedly leaked in 1998 is shown in **photo 45**.

I was told that the only real leak of material that has occurred at Rosse was on June 3, 1992 and it required an emergency spill response. A barrel of aqueous coating was spilled in the alley. It was product that had just been brought in, but the production staff was so upset by the incident that an emergency spill response crew was called in. I was shown the paperwork to support what I was told (attachment 25).

I told Mr. Gloe that I had been asked to assess the structural integrity of the supports for the new press, but that I was not qualified to render such an assessment, given that I an not a structural engineer. Mr. Gloe showed me several engineer's studies/reports and letters attesting to the structural integrity. One report that I read even indicated the structural support provided exceeded the requirements. Mr. Gloe explained to me that he had the structure evaluated before and after installation because the building owner had given him such a "hard time" about this issue. To further assure me that Rosse is managing its waste properly, he gave me a copy of the Emissions Inventory Questionnaire (attachment 26) and told me how the City's Air Program inspects the facility frequently throughout the year.

6.4 Preparedness and Prevention and Emergency Procedures

During the facility tour on 7/6/2000, I observed that although there were many fire extinguishers clearly visible throughout the production area, the fire extinguisher and spill control equipment locations were not posted near any of the telephones. Failure to post the location of fire extinguishers and spill control equipment near a phone is in violation of 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(5)(ii). (NOV#16) In fact, when I asked to see the spill control equipment, Mr. Rosebrough verified that there was no spill control equipment available. We discussed what he should get. Failure to have spill control, decontamination and safety

equipment available is in violation of 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(4) referencing 40 CFR 265.32 as amended by 10 CSR 25-5.262(C)2.G. (NOV#15)

6.6 Quarterly Reports, Manifests and Tolling Agreements

Generator hazardous waste summary reports were reviewed starting with waste generated for the period ending December 1996 and ending with the latest quarterly report filed. The only notable filing was on 5/1/98 at the request of MDNR (attachment 23); Rosse had not filed a report initially since there were no shipments for that period. There were no violations noted.

Rosse has been shipping its hazardous waste most recently through MEI-MO. There appears to have been 8 hazardous waste manifests used between 6/96 and 5/2000 (attachment 16).

Numerous additional manifest violations were found during the review and are explained below:

- An incorrect EPA ID number was used on manifest numbers 00004, 00005, and 00006. Failure to use the correct EPA ID number on manifests is in violation of 10 CSR 25-5.262(1) incorporating 40 CFR 262.20(a) as amended by 10 CSR 25-5.262(2)(B)1. (NOV#8)
- A consecutive shipment number was not used for the shipment on 11/2/99; manifest number 00002 was used twice. The correct consecutive shipment number would have been 00004, which was used later on the 12/8/99 shipment. Failure to use consecutive shipment numbers on manifests is in violation of 10 CSR 25-5.262(2)(B)2.A. (NOV#9)
- For the 10/27/99 shipment of "Combustible Liquid, N.O.S. (Petroleum Distillate), Combustible Liquid, UN 1993, PG III, ERG#128" under manifest #0003 (attachment 16-12), this DOT shipping name does not match the name listed in the corresponding profile number C3066-02, "Dampening Solution". The DOT description listed is for profile number C3066-01, (Solvent). Thus, it is not clear whether dampening solution was shipped or not. According to Mr. Edwards, the "Combustible Liquid, N.O.S. (Petroleum Distillate), Combustible Liquid, UN 1993, PG III, ERG#128" was for a mixture of oil and water from a line rupture. Failure to list the correct DOT shipping name is in violation of 10 CSR 25-5.262(2)(B)1 and 2. (NOV#10)
- Manifests 00002 and 00003 for shipments on 10/27/99 do not list the specific gravity of the waste. Failure to do so is in violation of 10 CSR 25-5.262(B)1 and 2. (NOV#11)
- The 10/27/99 manifest #00002 and the 11/16/99 manifest #00002 did not have an LDR notification/ certification attached for the D001 Blanket Wash (profile waste #7) at the time of shipment. Per Mr. Rosebrough's facsimile dated 7/12/2000 (attachment 13), profile wastes #1 and #7 are the same, Blanket Wash. Thus an LDR notification/ certification was not filed until 11/16/99, after the shipment dates (attachment 27).

Failure to adequately test or use knowledge of the waste to determine if the waste is restricted from land disposal and to send the "Land-Ban" notification/certification with manifests or with the 1st shipment under a tolling agreement is in violation of 10 CSR 25-7.268(1) incorporating 40 CFR 268.7(a). (NOV#12)

- The correct EPA hazardous waste number was not listed for the etching solution and the dampening solution on manifest # 00003 for the 10/27/99 shipment. Based on the TCLP results in the waste analysis profiles (attachments 24-8 and 24-4, respectively), both these wastes would be D011 characteristic for silver. The etching solution and the dampening solution were shipped as non-regulated and D001, respectively. Failure to list the correct EPA hazardous waste code is in violation of 10 CSR 25-7.268(1) incorporating 40 CFR 268.7(b)(4) and (5). (NOV#13)
- I noted that in manifest # 00004 for the 12/8/99 shipment, the profile waste number listed is for dampening solution. Mr. Rosebrough explained that what was shipped was actually blanket wash and the manifest was in error. The 7 drums should have been listed under item b. The generation rates for the blanket wash are consistent with the shipment on 12/8/99. There is no violation because the correct waste code is still listed.

Alma Moreno Lahm Environmental Engineer

Date: 9/27/2000

Attachments:

- 1. Region VII Multimedia Screening Checklist (2 pages; 1 page double-sided)
- 2. Complaint and Results of Samples Taken and Analyzed by Building Owners' Contractor (9 pages)
- 3. 7/3/2000 Telephone Conversation Record with Mr. Charlie Troppito (Owners' Contractor) (1 page)
- 4. Notes from Meeting Mr. Charlie Troppito at 2100 Wyandotte Building on 7/5/2000 (1 page)
- 5. Confidentiality Notice (1 page)
- 6. Receipt For Documents and Samples (2 pages)
- 7. Notice of Violation (3 pages)
- 8. 8/8/2000 Kansas City Star Newspaper Article on the 2100 Wyandotte Street Building (1 page)
- 9. Facility Map (2 pages)
- 10. Checklist (12 pages)
- 11. EPA RCRIS Handler Information Report (1 page)
- 12. 7/11/2000 Facsimile from Hank Rosebrough (60 pages)
- 13. 7/12/2000 Facsimile from Hank Rosebrough (3 pages)
- 14. Material Safety Data Sheets (MSDS) for Raw Materials Used (16 MSDS total for 58 pages)

- 15. 12/10/99 Authorization Letter to Accept Waste #7 Petroleum Distillates (Blanket Wash) and 12/8/99 Waste Analysis Profile (2 pages)
- 16. Waste Manifests and Invoices (10 manifests for a total of 17 pages)
- 17. 10/15/99 Pricing Proposal by Millenium Environmental Co. (1 page)
- 18. Vendor History Reports (2 pages)
- 19. Estimation of Accumulation Quantities and Time frames (2 pages)
- 20. Towel & Uniform Service Shop Towel Sale/Rental Agreement (1 page)
- 21. 9/12/2000 Facsimile from Hank Rosebrough (3 pages)
- 22. 1/12/2000 Authorization Letter to Accept Waste #6 Modified and Waste #8, and 12/8/99 Waste Analysis Profile (4 pages)
- 23. 5/1/98 Hazardous Waste Summary Report (4 pages)
- 24. 10/25/99 Authorization Letters to Accept Wastes #1 #5 (Solvent from Cleanup, Dampening Solution from Cleanup, Machine Oil from Cleanup, Etching Solution from Cleanup, Color Wash from Cleanup), 10/22/99 Waste Analysis Profiles for Wastes #1 #5, and 11/23/99 Waste Analysis Profile for Waste #6 (Water Based Coolant) (12 pages)
- 25. Invoice for Emergency Spill Response Services 6/9/92 (6 pages)
- 26. Emissions Inventory Questionnaire (EIQ) done 3/3/2000 for 1999 (10 pages)
- 27. 11/16/99 LDR Notices for Wastes #1 #5 in 10/22/99 Waste Analysis Profiles (6 pages)

Photolog (8 pages)
Photographs (15 pages/45 photos)

Forward To: EJ 🗆	TSCA/EPCRA 🗹 CV	VA □ Wetlands □	UIC - PWS - CA	A □ CFC □ RCRA□	UST SPCC
	REGION	VII MULTIMED	IA SCREENING CI	HECKLIST	
Gloe Graphic	e the oba	_	~	1.	
Facility Rosse Litch	~ 11 6)	Facility Ownership_		_ '	a Moreno Lahin
Street 2100 Wyand		Facility Contact 3		Primary Media	
City Kansas Cit	ý	Phone (8/6)842	<u>- 466</u> 9 SIC code <u> 2√53</u>	_	
	\sim	,	ork Hours/Shifts <u>. </u>	5 Date 6 29 20	<i>ωω</i>
1. What does the facility	do? <u>Print m</u>	aterials/docu	cinito		
2. Provide a brief proces	ss description:	<u> </u>			
(Check all that apply):	Painting/Coating (Water	er-based (12), Solvent-t	oased □); Printing ଢ, Rea	cting □; Formulating □; I	Distilling □;
Parts Washers/Degre	asing (Water-based □,	Halogenated-based	□, Non-halogenated-based	□); Combustion (boiler, f	urnaces, oxidizers) □;
Electroplating (Chrom	e □, Other); Electro-less pla	ating(Type)
ENVIRONMENTAL JUS	TICE (EJ - Note: Only	forward to EJ if a co	ncern is also identified in	one of the regulatory are	eas below)
1. Is the facility located i	n a low income area (e.	g., with many abando	ned and dilapidated properti	ies)? No ☑ (stop) Ye:	10
s Is the facility loca	ated less then 1000 feet	from the nearest roul	inely occupied property (hou	use, school, etc.)? No Œ	es □ → Forward to EJ
TOXIC SUBSTANCES (CONTROL ACT (TSCA) EMERGENCY PLA	NNING & COMMUNITY RIC	GHT TO KNOW ACT (EPO	CRA)
1. Does the facility use r	nore than 200 gallons o	r.1,500 pounds <u>per m</u>	onth of the following (check	all that apply): Acids □,	Anhydrous Ammonia □,
Chlorine □, Chlorinat	ed Solvents □, Solvent	-Based Paints (), or	onth of the following (check solvents 127? No (\$) (stop)	Yes □ (Ava	ailable on Envirofacts)
			ed under Section 313 of EPC		
2. Does the facility store	more than 100 gallons	or 1,000 pounds of th	e following (check all that ag	pply): Acids □, Bases □,	Bulk Chemicals I
Anhydrous Ammonia	□, Chlorine □, Chlorina	ated Solvents 🚉 Fue	ls □, Gases □, Solvent-Ba	ter⊒cl Links the ised Paints □, or Solvents	Bulk Chemicals IN No □ (stop) Yes II
Have Hazardous	Chemical Inventory Fo	rms (Tier II) been sul	omitted to local and state go	vernments (Emergency Pl	anning Committees or
State Emergency	y Response Commissio	n)? Yes 🗆 No 🗹 -	Forward to EPCRA	(/	Available on Envirofacts)
r Have Risk ħ	Management Plans bee	n submitted to EPA u	nder Section 112r of the CA	A? Yes⊟ No te → Fon	ward to EPCRA
3. Does the facility have	any equipment that cor	ntains PCB's at conce	ntrations >500 ppm? No	t⊠ (stop) Yes □	
🖙 Do you see any	visibly leaking equipmer	nt(including wet or we	eping equipment)? No □	Yes □ → Forward to	TSCA (Get Photo)
CLEAN WATER ACT (C	:WA) - National Polluti	on Discharge Elimir	nation System (NPDES), In	dustrial Pretreatment	ar keli tavolik, atlendarata derikatak aleksellata
1. Does the facility disch	arge any water to storn	n sewers, surface wat	er, or the land? No 🖽 (sto	p) Yes □	
Are <u>all</u> of the war	ter discharges permitted	i? Yes□ No□-	→ Forward to CWA		
2. Does the facility disch	arge process wastewat	er to the city POTW (Publically Owned Treatment	t Works)? No 교 (stop) \	∕es □
Are the discharg	es permitted by: The s	tate? □ (Stop here)	The city? □ No □ =	Forward to CWA;	
r Does the ci	ty have a state or EPA	approved pretreatmer	it program? Yes □ N	lo or Don't Know □ → Fo	rward to CWA
3. Do you see any waste	ewater discharges not id	tentified by the facility	? No □ (stop) Yes □	Location:	
		Appearance of discl	narge:	(Get Pho	oto) → Forward to CWA
CLEAN WATER ACT (CWA) - Section 404 W	etlands	Sentesta (1972), the into Hustria, attached as in in Polyf		Conservation of the Marine St. 131
1. Does the facility have	any wetland areas (e.g	. streams, ponds, or t	emporarily wet areas)? No	(Stop) Yes □	
■ Do you see any	areas that have been fil	led, dredged, channe	lized, dammed, or had grave	el removed from within the	last 5 years?
No □ Yes □ 🗕	FWD to Wetlands V	Vhen?	Location:		(Get Photo)
			Control (UIC) & Public Wat		
1. Does the facility disch	narge any <u>liquids</u> to the	subsurface (septic sy	stems, disposal wells, cessp	oools, etc.)? No 🗹 (stop)	es □→ Forward to UIC
	vastes consist of sanita			• • • • • • • • • • • • • • • • • • • •	
2. Does the facility provi	ide drinking water to 25	people or more from	its own source (private well,	, pond, etc)? No ⊈(stop) Y	es □→Forward to PWS
		•	omply with state regulations		
Version 05.18.00			YOU NEED TO LOOK FOR D		<u>N</u>
			MTI Dogo Lot		

ATTACHMENTL Page Lof &

CLEAN AIR ACT (CAA)
1. Do you see any dense, non-steam, smoke or dust emissions leaving the facility property? No □ Yes □ → Forward to CAA Source (Get Photo)
2. Does the facility have any new air pollution emitting equipment that was constructed or installed in the past 5 years? No □ (stop) Yes ☑ properties are Is specific equipment permitted? Yes ☑ No □ → Forward to CAA (Describe:
3. Does the facility have any <u>manufacturing process</u> cooling units that contain >50 lbs of refrigerant? No ☐ (stop) Yes ☐ → Forward to CFC ■ Are these units: Self-serviced? ☐ Contract Serviced? ☐ Service Company:
4. Does the facility service motor vehicle air conditioning systems? No 【□ (stop) Yes □ Types:
■ Does the facility have <u>separate</u> servicing and recovery equipment for <u>each type</u> of refrigerant? Yes □ No □ → Forward to CFC
5. Does the facility use any of these refrigerants: Duracool □? Envirosafe □? OZ-12 □? HC-12a □? No Yes □ → Forward to CFC
RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) —
1. Does the facility generate more than 30-gallons (220 lbs./100kg) of hazardous waste per month or at any one time? No la (stop) Yes □ ■ EPA Hazardous Waste Identification Number? # No lb (stop) 98 ≤ 80 ≤ 90 € Generator Size 50 € None □ → Forward to RCRA
2. Does the facility treat □, burn □, landfill □, or have surface impoundments □, for on-site <u>hazardous waste</u> management? No (stop) Yes □ Is facility permitted for above described activity? Yes □ No □ → Forward to RCRA
3. Does the facility generate, store, or ship off-site large quantities (>10 drums, roll-offs, waste piles, etc.) of waste material that they claim to be
non-hazardous (exclude clean office trash, cardboard, & packaging type wastes)? No ☑ (stop) Yes □
List Waste Type What information can the facility show you that demonstrates the waste is actually non-hazardous?
Sea francis and the seasons of the wasters actually non-nazardous!
• • • • • • • • • • • • • • • • • • • •
• • • • • • • • • • • • • • • • • • • •
-
Testing, industry or manf. info., MSDS, etc. □; None available □ → Forward to RCRA
Testing, industry or manf. info., MSDS, etc. □; None available □ → Forward to RCRA 4. Do you see any hazardous waste containers, drums, or tanks leaking? No □ Yes □ → Forward to RCRA
Describe:(Get Photo)
5. Do you see any signs of spills or releases (e.g., dead or stressed vegetation, stains, discoloration)? No \(\mathbb{P} \) Yes \(\mathbb{P} \rightarrow \infty \) Forward to RCRA Describe: Used oil Ohly, in PCPA (pt already), Used oil from horneligands (Get Photo)
6. Do you see any chemical or waste handling practices that concern you (access to children/public)? No Yes → Forward to RCRA Get Photol (Get Photol
UNDERGROUND STORAGE TANKS (UST part of RCRA) No USTS.
1. Does the facility have any <u>past</u> or <u>present</u> underground petroleum product or hazardous material tanks? No □ Yes □ → Forward to UST
2. Does the facility have any underground fuel tanks for emergency generators? No ☐ Yes ☐ → Forward to UST
SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN (SPCC)
1. Does the facility have any aboveground <u>oil</u> tanks (petroleum, synthetic, animal, fish, vegetable), with an aggregate volume >1320 gallons? No □ (stop) Yes □ s Is there and SPCC Plan? Yes □ No □ → Forward to SPCC
© Do you see a secondary containment system for the tanks? Yes □ No □ → Forward to SPCC
ST Do you see any leaking tanks where oil could reach waters of the State or U.S.? No ☐ Yes ☐ (Get Photo) → Forward to SPCC
* PLEASE TAKE <u>PHOTOS</u> TO DOCUMENT POTENTIAL PROBLEMS

Version 05.18.00

GRAY SHADED AREAS INDICATE ITEMS YOU NEED TO LOOK FOR DURING VISUAL INSPECTION

ATTACHMENT L Page 2 of 2

THE SESSION LAW FIRM

2600 GRAND BOULEVARD SUITE 440

KANSAS CITY, MISSOURI 64108

TELEPHONB:(816) 842-4949 TELEPAX (816) 842-1815

TELECOPY COVER SHEET

NAME:

Jenna Wishmeier, Esq.

COMPANY: Office of Regional Counsel

U.S. Environmental Protection Agency

FAX NO.:

551-7064

FROM:

NAME:

Margaret L. Pemberton

NUMBER OF PAGES (Including cover page):

DATE:

March 17, 2000

RE:

2100 Wyandotte Street, Kansas City, Missouri

MESSAGE: Attached hereto is a copy of test results obtained by Kingston Environmental Services ("Kingston") regarding liquid substances leaking through the ceiling of the 2100 Wyandotte Street facility. The leaf was located directly beneath part of the Give Giaphics, Inc., d/b/a Rosse Lithographing Company operation, which occupies the building. If any additional information is received from Kingston, we will forward it to you.

ORIGINALS: Forwarded via

Express Mail

First Class U.S. Mail

Not Forwarded - Retained by Sender

IF YOU DO NOT RECEIVE ALL OF THE PAGES, OR IF YOU ARE EXPERIENCING PROBLEMS WITH THIS TRANSMISSION, PLEASE CALL (816) \$12-4949 IMMEDIATELY.

THE HERORMATION CONTAINED IN THIS ECK MESSAGE IS PRIVILEGED AND CONFIDENTIAL INFORMATION, INTENDED ONLY FOR THE USE OF THE DIDIVIDUAL OR ENTITY NAMED ABOVE. IF THE READER OF THIS ASMESSAGE IS NOT T RECIPERT OF THE EMPLOYER OR AGENT RESPONSIBLE D. DELIVER IT TO THE ENTENDED RECIPIENT YOU ARE HERBEY NOTIFIED THAT YOU ARE IN THE POSSESSION OF CONFIDENTIAL INFORMATION. PLEASE ISSUEDLATELY NOTIFY THE SENDER BY TREEPHONE OF TOUR INADVENTENT RECEIPT AND RETURN THE ORIGINAL BY MESSAGE TO THE SENDER AT THE TELEPRONE NUMBER ABOVE. THE ATTORNEY/CLIENT PRIVILEGE IS CLAIMED.

Memorandum

Kingston Environmental Services, Inc.
Environmental Scientists & Engineers
1600 SW Markel St, Lee's Summit, MO 64081
Tele: (816) 524-8811 Fax: (816) 525-5027
Email: mlo@kingstonenv.com Email: info@kingstonenv.com Website! www.kingstonenv.com

BIL Session

From

Charlie Troppito

Res :

Test results

Dam

August 5, 1998

Attached are copies of the test results of the milky squeous liquid sample taken from around Attached are copies of the Landotte St. Building.

Of particular interest the sample contained.

		<u>.:</u>	
Analyte	Contentration	Common Us age	Regulatory Data
MEN	10,000 PPB/ 10 PPM	Industrial solvent	CERCLA listed nazarijous substanos, RQ = 5,000 lbs: ROBA Waste Number = U159
Acetone	6,800 PPB/ 6.8 PPM	industrial solvent	CERCLA listed hazardous substance; RQ = 5,000 lbs. RCHA Waste Number = U002

in reviewing the results please note that:

- a. The VOC TIC scan noted no chlorinated/halogenated solvents but digitated unknown PAHE
- b. The heavy metals-Barlum & Lead were detected in PPB levels.

 c. Several forms of Trimethyl berizenes were detected at low levels.

The concrete core results for compressive strength are expected ternorres

Please contact me if you have any questions.



15130 South Keeler, Olatho, Kansus 66062 -Phone: (013) 829-0101 - Cax: (013) 829-1181 e-mail: amlab@idir.net

Certificate of Analysis

July 10, 1998

Mr. Charlis Trappito .. Kingston Environmental 1600 SW Market Lee's Summit, MO 64081 Phone: 524-8811

525-150027

2100 Wyandotts Bldg. / 98C017 Client Project ID:

Jah Project Number: 070698.04

Chain of Custody #: 3384

Dear Mr. Troppito:

Included are the analytical results for the soil samples received on July 06, 1998. All analyses were prepared and analyzed within method required holding times.

The semi-volatile detection limits are clavated due to the high level of tital persolvent by drocerbons.

The surrogate recoveries for the volatile analysis are below acceptable criteria. This is is due to matrix effects of the oily sample. All data results are qualified with a "J" to indicate estimated values only.

If you have my questions regarding this report, fast free to contact me at (913) 829-0101.

Reviewed By:

Page 1 of 6



Certificate of Analysis

Mr. Charlie Troppito Kingston Environmental

Client Project ID:

2100 Wyandotts Bldg. / 98C017

Lab Project Number: 070698.04

Chain of Custody #: 3384

Client Sample ID: WY-! Date Collected: 07/02/98

Lab Sample ID: A1805 Date Received 07/02/98

07/10/98 Analyst RRH Method: OA2 TPH-Died Date Analyzed: <u> Unite</u> Detection Limit Analyte Results 50 Total TPH-Diesel Range 19000 _ mg/kg . Landining in demonstri Diferent Cut

- TEA #	Analyte	07/10/GB Pasultu	Analyar: KLL Unio	Methode 5270
	Pheno1	ND	mark Tari	100000
	2-Chlorophenol	ND	have	10000
	1,3-Dichlarobenzene	ND	MOTE	122221
	1,4-Dichlorobenzene	ND	he/ke	100000
	1,2-Dichlorobenzene	ИD	h8/k8	100000
	2-Methylphenol	ND	ha/ka	100000
	his (2-chloroisoprapyl) ether	ND	he/ke	100000
	4-Methylphenol	ND	μ ε/ ξα	100000
	n-Nitroso-di-Propylamine	ND	μ ε/kg	100000
	Hexachlorosthane	ND	µg/kg	100000
	Nitrobenzene	ND	µg/kg	100000
	Isophorone	ND	μg/kg	100000
	2-Nitrophenol	ND	µg∕kg	100000
	2,4-Dimethylphonol	ND	µg/kg	100000
	his (2-chloresthony) Methane	ND	ug/kg	100000
	2,4-Dichluropelinol	ND		100000
	1,2,4-Trichlarobenzene	ND	he/ke	100000
	Naphthalene	ND	h8/kg	100000
	4-Chlomeniline	ND	μ g/kg	100000
	Hexachlorocyclopentadiene	ND	μ g/k g	100000
	2,4,6-Trichlorophenol	ND	μ g/kg	100000
	2,4,5-Trisklarephanol	ND		100000
	2-Chloronaphthalene	ND	HE/KE	100000
	2-Nitrosniline	ND	µæ∕kg	100000
	Dimethylphthalate	ND	μ g/k g	100000
	Acepaphthylene	ND	μ g/ kg	100000
	3-Nitroaniline	ND	μg/kg	100000
	Accumphtens	ND	HE/KB	100000
	2.4-Dinitrophenol	ND	μ e/k g	100000
	4-Nitrophenol	ND	he/ke	100000
	Dibenzofuran	ND	μg/kg	100000
	2.4-Dinitrotoluene	ND	μg/kg	100000
	Diethylphthalate	ND	μg/kg	100000

Roviewed By:

Page 2 of 6



15130 South Keeler, Olathe, Kansas 66062 Phone: (913) 829 0101 • Fax: (913) 829-1181 o-mail: amlab@idir.net

Certificate of Analysis

Kingston Environmental

Client Project ID: 2100 Wyendotte Bldg. / 98C017

Chain of Custody #: 3384

Lab Project Number: 070698.04

Cilcut Sample II.

Lab Sample ID: A1805 (cont.)

Analyte	Penults	Unite	Detection Limit
4-Chlorophenyl-phenylether	ND	μ g ∕kg	100000
Fluorene	מא	h8/kg	16ជិជិជិជិ
4-Nitroaniline	מא	hg/kg	100000
4.6-Dinitro-2-Methylphenol	МD	ug/kg	100000
n-Nitrosodiphenylamine	שא	HE/KE	100000
4-Bromophenyl-Phonylother	· \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	- H&#E</td><td>100000</td></tr><tr><td>Hexachlorobenzene</td><td>ND</td><td>μg/kg</td><td>LINDOOR</td></tr><tr><td>Pentachlorophenoi</td><td>ND</td><td>µg/kg</td><td>100000</td></tr><tr><td>Phenanthrene</td><td>מא</td><td>h8/k8</td><td>100000</td></tr><tr><td>Anthracene</td><td>ND</td><td>μ8/k8</td><td>100000</td></tr><tr><td>Di-n-butyl Phthalate</td><td>ND</td><td>m8/k8</td><td>100000</td></tr><tr><td>4-Chlore-3-methyl phenol</td><td>ND</td><td>μg/kg</td><td>100000</td></tr><tr><td>Hexachlorobutadisas</td><td>ND</td><td>ha/ka</td><td>100000</td></tr><tr><td>2,6-Dinitrotoluene</td><td>ND</td><td> <u> </u></td><td><u> </u></td></tr><tr><td>2-Methylmaphthalene</td><td>ND</td><td>µg∕kg</td><td>100000</td></tr><tr><td>Chrysene</td><td>ND</td><td>h8/k8</td><td>100000</td></tr><tr><td>Di-octyl Phthalete</td><td>ND</td><td>µg/kg</td><td>100000</td></tr><tr><td>Fluoranthone</td><td>ND</td><td>µg/kg</td><td>100000</td></tr><tr><td>Pyrone</td><td>ND</td><td>hã/Kã</td><td>100000</td></tr><tr><td>Butylbenzylphthalate</td><td>ND</td><td>μg/kg</td><td>100000</td></tr><tr><td>Banno (a) Anthracene</td><td>ND</td><td>ug/kg</td><td>100000</td></tr><tr><td>bis (2-ethylhexyl) Phthalate</td><td>ND</td><td>HE/KE</td><td>100000</td></tr><tr><td>Donus (b) Plustenthens</td><td>ND</td><td>ug/ke</td><td>100000</td></tr><tr><td>Benzo (k) Fluoranthene</td><td>ND</td><td>µg/kg</td><td>100000</td></tr><tr><td>Benzo (a) Pyrene</td><td>ND</td><td>µg/kg</td><td>100000</td></tr><tr><td>Indena (1,2,3-cd) Pyrens</td><td>ND</td><td>µg∕kg</td><td>100000</td></tr><tr><td>Benzo (a,h) Anthracene</td><td>ND</td><td>µg∕kg</td><td>100000</td></tr><tr><td>Benzo (g.h.i) Porylens</td><td>ND</td><td>πε∖κε</td><td>100000</td></tr><tr><td>2-Fluorophenol (surregue)</td><td>Diluted Out</td><td>%</td><td></td></tr><tr><td>Phenol-de (purrepaie)</td><td>Diluted Out</td><td>%</td><td></td></tr><tr><td>Nitrobenzene-d5 (rumogase)</td><td>Dibred Out</td><td>%</td><td></td></tr><tr><td>2-Fluorobiphenyl (surregue)</td><td>Diluted Out</td><td>· %</td><td></td></tr><tr><td>2,4,6-Tribromonhenol (surragete)</td><td>Diluted Out</td><td>%</td><td></td></tr><tr><td>Terpheyl-d14 (purrogate)</td><td>Diluted Out</td><td>%</td><td></td></tr></tbody></table>	

TIC's

RT

<u>Analyte</u> Unknown Alkanes

Estimated Amount 19000

Unite mg/kg

Page 3 of 6



15130 South Keeler, Olathe, Kansas 66062 Phono: (913) 829-0101 • Fax: (913) 829-1181

e-mail: umlab@idir.nei -

Certificate of Analysis

Kingston Environmental

2100 Wyandone Bldg / 98C017 Client Project ID:

Lab Project Number: 070698.04

Chain of Custody #: 3384

₩Y-1 Client Sampie ii.

Lab Sample ID: A1805 (cont.)

Volatile	Date Analyžes		X	Markett Dock
	Anniyie	Regults	Licits	Detection Limit
	Dichlorodifluoromsthane	מא	ha/xa	50
•	Chloromethane	מא	hrage	50
•	Vinyt Chloride -	ND	hB/EB	50
1	Bromomethane	D	μ g/kg	50
	Chloroethane	MP	μ ε∕κε με∕κε	50
	Acetone	ND ND	ከቼሊፎቼ ከጀላፎዊ	50 50
	1,1.Dichlomethene	מא מא		ŠŪ .
	ledomethans	ND	μ8∕κ8 μ 8∕κ8	50
	Carbon Disulfide	אס	μg/kg	50
	Methylens Chloride			50 50
,	Methyl Tort Butyl Ether (MTBE)	ND	he/ke	50 50
	trans-1,2-Dichloroethene	מא	h g/xg	
	1,1-Dichleroethane	ND	hakk	SO SO
	2-Butsnone (MBK)	ND	hB\xB	\$0
	cis-1,2-Dichloroethens	ND	he/ke	50 .
	2.2-Dichloropropane	ND	hr/kg	50
	Bromochloromethane	ND	ha/ke	SQ
	Chloroform	ND	hB/kB	50
	1,1,1-Trichloroethane	ND	μg/kg	50
	1,1-Dichloropropene	ND	HE/KE	50
	Carbon Tetrachloride	מא	INE/KE	50
	1,2-Dichloroethans	ND	ha/ka	50
	Benzonc	מא	π ē∖ķ ē	50
	Trickloroethene	ND	HB/KB	- 50
	1,2-Dichloropropine	שא	π σ∖κσ	50
	Dibromomethene	ND	h8/k8	50
	Bromidichloromethans	ND	μg/kg	50
	2-Chloroethyl vinyl ether	מא	ha/ka	· ·· 50
	cis-1,3-Dichloropropens	นท	HE/RE	
	2-Methyl-4-pentanone (MIBK)	ענא	Hg/kg	50
	Tolucat	150 J	ha/ka	50
	trans-1,3-Dichloropropens	ND	μ g/kg	SO
	1,1,2-Trichloroethana	מא	H6/43	50
	1,3-Dichloropropane	ND	h8/x8	50
	Tetrachloroethane	מא	hs/ga	50
		ND	h8/k8	50
	2-Hexanone Dibramochlaremethane	מא טא	ከቼ/ K ጀ ከሕተጀ	50
	1,2-Dibramomethane	ND	hB/kB	50
		אט מא	hE/kg	50
	Chlorobenzene	מא פא		50
	1,1,1,2-Terrachloroethane	uth	h8/k8	70

Reviewed By:

Page 4 of 6



15130 South Kentor, Olatho, Kansas 66062 Phone: (915) 629-0101 - Pax. (016) 020 1181 --Gantili, amiabilitationer

Certificate of Analysis

Kingston Environmentat

Client Project III: 2100 Chain of Custody #: 3384 2100 Wyandotte Bldg. / 98C017

Lab Project Number: 070698.04

Client Sample ID: Lab Sample ID:

A1803 (cant.)

WY-I

<u>Analyte</u>	Roenits	Unita	Descript danne	
Ethyl Benzena	ND	Falsa d	50	
m/p Xylene	53 J	hayea	50	
o Xylene	ND	hB/kg	50	-
Stryens	ND	μ <u>ε∕≁</u> e	50 .	}
Bromoform	ND	µg/kg	50	.
Isopropyl benzene	ND	hayka	50	'
1,1,2,2-tetrachloroethume	ИD	hδykš	50	
Bromobenzene	MD	μ g/k g	69	ļ
1,2,3-Trichloropropane	ND	μ g/k g	50	1
n-Propyi benzene	300 J	на/ка	50	į
2-Chlorotoluene	מא	µg/kg	SQ	į
1.3.5-Trimethyl benzene	610 J	h&\ra	50]
4-chlorotoluene	ND	mg/kg	50	. 1
teri Butyi benzene	ND	µg/kg	50	1
1,3,4-trimethyl benzens	1400 J	μg/kg	5 0	i
sec Buryl benzenc	ND	µg/kg	50 ,	Ì
1,3-Dichlerobenzene	ND	µg/kg	50 ·	
p-isopropyl minene	MD	μ ε/k β	5 <u>0</u>	Ì
1,4-Dichlorohenzene	ND	he/ke	50	.
n-Butyl benzene	ND	ha/ka	50	į
1,2-Dichlorobenzene	ND	HB/KB	50	
1,2-Dibromo-3-chloropropros	ND	μ ε/ Έ	50	į
1,2,4-Trichlorobenzens	ND	mg/kg	ភ <u>ិ</u> ធិ	1
Hexachlorobutadiene	ND	µg/kg	50	Ì
Naphthalene	180 J	mg/kg	50	
1,2,3-Trichlorobenzene	ND	µg/kg	SO	ļ
Dibromofluoromethane (surregue)	83	%		
1,2-Dichlaroethane-44 (surrogate)	113	%		· · · · · · · · · · · · · · · · · · ·
Toluene-48 (sureses)	57	- %		
1-Bromofluorobenzene (nyragou)	28	%		

BI	Ansiyte	Estimated Amount		Units	
9.23	Unknown Alkane	80	1	ug/kg	
10.25	Unknown Alkane	240	Ţ	πā\ K Ē	
18.07	Substituted Benzene	960	1	ug/kg	
18.73	Substituted Betterns	280	j	nt/kt	
19.74	Limonenc	580	1	ug/kg	
20.07	Trimethyl Benzene	<i>6</i> 30	J	ug/kg	
20.97	Unknown Alkane	430	3	ug/kg	

Page 5 of 6



Pinne: (913) 829-0101 - Pax: (913) 029-1161 o mail: amlab@idir.net

Certificate of Analysis

Kingston Environmental

2100 Wyundotte Bldg. / 98C017 Client Project ID:

Lah Project Number: 070698.04

Chain of Custody #: 3384

Client Sample ID:	MA-1
Lab Sample ID:	A1805 (cont.)

m cm + 0 Madela			Detection		Date	
RCRAS Metals	Results	Units	Limit	Vasjati	Analyzed	Method
Analyte	PID	wa∖ka	0.80	KE2	07/08/98	6010
Amenic	0.598	mg/kg	0.20	KEZ	~~~```O`77Qā/Ÿā	6010
Barium	ND	mg/kg	0.20	KBZ	07/08/98	6010
Cadmium	ND	mg/kg	1.0	KEZ	07/08/98	6010
Chromium	· · · ·	mg/kg	1.0	KEZ	07/08/98	6010
Lead	2.93		0.02	KRZ	07/08/98	7420
Mercury	ND	mg/kg	1.0	KEZ	07/08/98	6010
Selenium	ND	mg/sg		KB7	07/08/94	6010
Silver	ND	mg/kg	C. 2 0	PEN		

			Detection		Melic	
Analyte pH	Results 6.610	<u>Units</u>	Limit	Analysi KEZ	Analyzed 07/10/98	Method 904,5

prelinder TIC'S

48270

Phase e exhabit any form for the may be parted in the

Eccaspic high concentrator

Paint Filter Test

dateTimes

7/6/88

Date/Times

Chain of Curlady Ricerd

Charle Troppite Trapido"
(913) 122-0635 (Home)

7/3/2000 Red sabura 1200-Mart 1/5/2000

J. S. X.

East side Northern most choor Take immediate keft. Sparking sporces over.

4 parting spaces there - parallel toldy

Pipe runs east + unst

Feaking 10-15 feit West of the East wall.
Pipe to sent of the office down that somes to purish lot.

Take fleelight.
Coming from flow drawn or wash up sink.

Scrapel offe the Thorwhen had dripped off the pige.

Attachment 3 pylof1

Blilly Owner Called to says people were complaining -would park

Cars in 1st 1 2 to spect would get drappage as point to

the point would discolar tipell.

Took plate of File think was leaking + sampled.

Affachment 4, Page 10f/

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY CONFIDENTIALITY NOTICE

Facility Name Gloe Graphics Inc. DBA	
Facility Address Lithographing Co.	
	1440
Inspector (print)	no 64/08
1/1/2 1/1	
U.S. EPA, Region VII, 901 N. 5th St., Kansas City, KS 66101	Date / / /
	6/30/2000
The United States Environmental Protection Agency (EPA) is obligated, under the to release information collected during inspections to persons who submit request of Information Act does, however, have provisions that allow EPA to withhold cer information from public disclosure. To claim protection for information gathered or request that the information be held CONFIDENTIAL and substantiate your claim the information meets the requirements in 40 CFR 2, Subpart B. The following critical substantians are substantial to the substantial content of the substan	ts for that information. The Freedom rtain confidential business during this inspection you must in writing by demonstrating that teria in Subpart B must be met:
 Your company has taken measures to protect the confidentiality of the into take such measures. 	formation, and it intends to continue
2. No statute specifically requires disclosure of the information.	• .
3. Disclosure of the information would cause substantial harm to your comp	pany's competitive position.
Information that you claim confidential will be held as such pending a determinat	ion of applicability by EPA.
I have received this Notice and <u>DO NOT</u> want to make a claim of confidence of Facility Representative Provided Notice (print) Signature	dentiality at this time
I have received this Notice and <u>DO</u> want to make a claim of confidentia	ility.
Facility Representative Provided Notice (print) Signal	ature/Date
Vanh Pacibions	7.6.00
/ Information for which confidential treatment is requested;	
1. ANY AND ALL PHOTOGRAPHS TAKEN DUKI	NG CEI.
(Rev: 11/15/99)	

ATTACHMENTS Page Inf

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY RECEIPT FOR DOCUMENTS AND SAMPLES

Facility Name Gloe Graphics Inc. DBA
Kosse Lithographing Co. Facility Address
2100 Wyandotte 2nd floor; KC, mo 64108
Documents Collected? YES (list below) NO
Samples Collected? YES (list below) NO Split Samples: YES NO
Documents/Samples were: 1)Received no charge 2)Borrowed 3)Purchased
Amount Paid: \$ Method: Cash Voucher To Be Billed
The documents and samples described below were collected in connection with the administration and enforcement of the applicable statute under which the information is obtained.

Receipt for the document(s) and/or sample(s) described below is hereby acknowledged:
DMaterial Safety Vata Sheets = 16 total for (50 pages)
#04955 Blanket Wash, bacokene Super, Genesis Fountain Solution We
Dampening Jolution, 9010, Glycol Ether EP, CK-303, TK Mark V
New Process Series, Film Kleen, 7065, Emerald Premium DAQ2879
Plate Cleaner Nin Plate Cleaner, Color Wash Step-1, Patro Gus
On The Fly, Pure Gum Arusic 14 BE, Kodak Ultrates Fixer and Replenis
Kodak Ultratec Developer and Replenisher
2) Manifesto and Invoices 12/3/96, 4/18/97, 12/3/9/44, 9/28/99, 10/27/99,
11/2/99 12/8/99 + 5/9/2000 - 10 manifeste for (17pages)
3) Vendor History Reportato detarmine to he shipments from 12/4/11-10 9
9 5/1/98 Hatardow Waste Summary Report (4pages)
5) 10/15/99 Price Propert by Millenium Engronmental Con (1 pupa)
(a) 10/25/99 Rusherization (etters to Accept Waste + Protiles to For (12 pages)
1) 11/16/99 LDK Notices for Wastiskin 10/20/99 Profiles (6 pages)
DYB Dear Authorization Letters to Accept Waste Fethelum Distillater & 10/8/99 (nofile (5)
Facility Representative (print) Signature/Date
HANK ROSEBROUGH Jank Jackson 7.6.00
Inspector (print) Signature/pate
Alma Moreno Lahn, alma Morene Safer 1/6/2000
U.S.EPA, Region VII, ENSV Division, Abdunton Read, Kansas City, KS 66115
(rev:1/20/93)

ATTACHWENT 6Page 1 of 2

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY RECEIPT FOR DOCUMENTS AND SAMPLES

de de la company de la com La company de la company d

Facility Name
Gloe Graphics Inc. DBA Rosse LAthographing
Gloe Graphics Inc. DBA Rosse Lithographing Facility Address 2100 Wyandotte, 2nd floor; KC, mo 64/08
Documents Collected? YES (list below) NO
Samples Collected? YES (list below) NO Split Samples: YES NO
Documents/Samples were: 1)Received no charge 2)Borrowed 3)Purchased
Amount Paid: \$ Method: Cash Voucher To Be Billed
The documents and samples described below were collected in connection with the administration and enforcement of the applicable statute under which the information is obtained.
Receipt for the document(s) and/or sample(s) described below is hereby acknowledged:
(10) Towel & Uniform Service Shop towel Sale/Rental Agreement (1)
1 Invoice for Emergency Spill Reasonse Services 6/9/92 (6pm)
(12) Emissions Inventory Questionnaire (ETQ) done 3/3/00 for 1999 (100
DInvoice for Etnergery Spill Reggonse Services 6/9/92 (6pg) (12) Etni ssing Invertory Questionnaire (EIQ) done 3/3/00 for 1999 (10pg (13) Ficility of Froduction flower + Storage map (2pages)
Facility Representative (print) Signature/Date
HANK ROSEBROUGH Hart Paschioge 7.6.00
Inspector (print) Signature/pate
Alma Moreno Lahm Whom Worme Jeh 4/6/2000
U.S.EPA, Region VII, ENSV Division, 25 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
rev:1/20/93)

ATTACHMENT Page Lof L

Notice of Violation Pursuant to Requirements of the Resource Conservation and Recovery Act (RCRA)

TO:		floe Graphics		Lithographing	Ihc.
	Address: 2				
1	EPA ID Number:/\text{/\text{/}}	Change (Aty) NIC	0 6410 9 Date	- 7/6/2MI	1
	EFA ID Nulliber. M	100925805464	Date	. 1/ 0/2000	<u></u>
This n	otice does not constit	ute a compliance orde	e following areas of noncomp r (Administrative Civil Comp s resulting from the the inspec	plaint) pursuant to Sec	_
	Citation		Descr	ription of Violation	· ((, ,)
	0 CSR 25-5.2		Failure to make	hazardous was	te defermination
<u>i</u>	corporating 4	1 CFR 262.11	on fluorescent light b	ular disparing i	
<u> </u>	CSR25-5, CA62	(1)	()	etermination on	
inco	yoursting 40 CF	R262,11	profile (3060-04) as	d Dampening Sal	uting (C3016-0
	CSR25-5-262 (1 10 CFR 262, 341) incorporating 3	Storage of Dool Blan	pet Wash our	daygo A
(A) 10	WK25-5,260	26)(c)1. T	One drum of DOOI Bla	nket wash in . stor	age not labeled by
- 1			supor during entine a	. ,	period.
3) 10	0 CSR 25-5.262	(1) ihorporative (- N	17/ 1/2	in storage not
OCFR	212,34(d) (4) Hofe	rencina 40 CPR262		or Ked WPK dato	of accumulati
610	CSR-25-5,262(1) incorporating (1 One drum of Door	Blanket wash	in storage hor
OCE	R 262, 34(d) (4) referencing	clearly marked	"Hozardous"	Waste"
	FR 262,34 (a	·)(3),			
			vithin 14 calendar days of re		
	esponse should be sub		en and/or a schedule for comp	neung the necessary co	orrective actions.
111010	esponse should be suc	miniod to:			
		U. S. Environn	nental Protection Agency, Re	gion VII	
		901 Nort	L 5HSt.		•
		Kanaas	City, K. Gle 101		
		Mailwed			
		ATINAII	na Moreno Lahm		
If you	have any questions a	bout this Notice or wi	sh to discuss your response, y	ou may call me at	
-,		' '	abeth Koestliner		ompliance Officer) at
	113) 551-767=				•
			•		
This N	Notice prepared by	alma Mi	oreno Zahm	Date: 7/6	6000
. 11115 1	totice prepared by	Comment to	9 40 10 10 10 1	Date	(2000)
The u	ndersigned person acl	knowledges that he/she	e has received a copy of this l	Notice and has read sa	me.
			11 0		—
		Printed Name:	HANK KOSEBRO	ough Dar	te: <u>7.6.2000</u>
		Signature: Title:	HANK ROSEBRO Hank Joseph Blant Mana	eogl	
		i me:	Elant "//jana	ager	
				-	J. Park
	*		Page $\int of \underline{3}$		
		۲ΤΛ	TACHMENT 7 Page / (nf 3	

Notice of Violation Pursuant to Requirements of the Resource Conservation and Recovery Act (RCRA)

TO: Facility Name: 6/04	2 Graphics It	ne. DBA Rosse Lithographing Inc.
Address: 2/00	Wyandette	had latter
EPA ID Number: 1100	98580546	64 Date: 7/6/2000
This notice does not constitute a	compliance order (e following areas of noncompliance with state and federal regulations. (Administrative Civil Complaint) pursuant to Section 3008 of RCRA resulting from the the inspection.
Citation		Description of Violation
1)10 CSR25-5.262 (1), 40 GR 2(2,346) (1/i)r		Satellite 55-gallow Sturn of Door Blanket Wash hot closes CFR265, 173(a)
(A) 1. ((A) = () () (1) i	aporting B	Wrong EPA ID # listed on manifests # DOWY, 0005 \$ 0000 6.
(1) 10 CSR 25-5.212 (2) (1)	3)2.A. (D)	Manifest diament ID + consecutive shipment # Not weed 500002+
10 CSR25-5.262(2)1	31+2 01	Specific grantly not fixed on market 4 00002 19/27
Theoperating 40 CFR	-268.7(a) I	Do 01 Blanket Week (Pho File C3066-07) + regulated was shipped 10/27/99 # 00002 markent + 11/2/49 \$00002 de0
(3) 10 CSR 25-7.268(1)		Not listing correct EPA frequences waste # for
You are requested to submit a winclude a description of all corre The response should be submitted	ritten response wit ctive actions taken	ithin 14 calendar days of receipt of this notice. Your response should me and/or a schedule for completing the necessary corrective actions.
•	401 North Kansas Mailcode	nental Protection Agency, Region VII K5thSt. Way K5 (10/0/ L: ENSV/ AR CM Mareno Luhm
If you have any questions about (913) 551 - 7380 (913) 551 - 7673	this Notice or wish , or	th to discuss your response, you may call me at Lett Kousterw (Compliance Officer) at
This Notice prepared by	In Moren	no Sahn Date: 7/6/2010
The undersigned person acknow	ledges that he/she h	has received a copy of this Notice and has read same.
Addition to the second	Printed Name: Signature: Title:	HANK KOSEBROUGH Date: 7.6.00 Hanh Rescharge
e de la companya del companya de la companya del companya de la co		The state of the s
		Page $\frac{2}{3}$ of $\frac{3}{3}$
	ATTA(CHMENT 7 Page 2 of 3

Notice of Violation Pursuant to Requirements of the Resource Conservation and Recovery Act (RCRA)

TO: Facility Name: 6/	oe Graphic	a DBA Rosse	Lithogra	phina Co.	
Address:	I other !	Dages	0 0		
EPA ID Number: Mol	9858054	164	Date:	7/16/200	0
This notice is provided to call your This notice does not constitute a and may not be a complete listing	compliance ord	ler (Administrative C	Civil Complaint	t) pursuant to S	•
<u>Citation</u>			Descriptio	n of Violation	
(14) 10 CSR 25-11.279 incorporating 40 CFR2	(1) 79.22(d)	14) Zailure Luardo // Normal of a gazarda	4 1	0	il on and fluor de from routine Used oil is not retion level,
(5) 10 CSR25-5,242(1) 14 to CFR262,34(d)(4) re	corporating (S) No spill white CFR 265. 32 and	1, decontamin	My . inton + safety 1005R 25-1	2 equipment available. 5.262(2)(c)2.6.
(16)10 CSR25-5.262(1)111000 40 CFR 26234 (d)(S 11) 10 CSR25-11, 279(1)11	poreting () (ii)	Location of fir Hear phone.	e extinguist (Warbzing	~	control equipment por that on wall.)
40 (FR 279.22 (c)	(1)	1 winning			Mosk oct No. 1 word
You are requested to submit a vinclude a description of all correction response should be submitted.	ctive actions tal				
	U. S. Environ	nmental Protection A	gency, Region	VII	•
-	Sei	Hup	(Vigla)	· · · · · · · · · · · · · · · · · · ·	
	ATTN	*			
If you have any questions about	this Notice or w	vish to discuss your r	esponse, you n	•	Compliance Officer) at
This Notice prepared by	lna Mo	reno Sahu		Date:	16/2000
The undersigned person acknow	ledges that he/sl	he has received a cop	py of this Notic	e and has read	same.
•	Printed Name Signature:	: Harla !	Karber	5 <i>H</i> I	Date: 7/6/2000
	Title:	1/2	ant Man	ger	
		Page <u>3</u> of <u>3</u>		1	

ATTACHMENT_7Page_3 of 3

D4

THE KANSAS CITY STAR.

Razing of contaminated building OK'd

Freight House tenants pleased by EPA action

> By MARK P. COUCH The Kansas City Star

A polluted building in the heart of the Freight House district would be rn down piece-by-piece under a plan approved last week by the U.S. Environmental Protection Agency.

The "surgical" demolition of the building at 2100 Wyandotte St. has a high cost — \$16.4 million.

But it also has a big payoff — removing a hazardous threat that could have delayed new development in one of the city's emerging office districts.

"It's been an enormous white elephant in the neighborhood," said Tom Levitt, who owns property next to the building. "This gives us an opportunity to provide more parking for the whole neighborhood."

The building is contaminated with polychlorinated biphenyl, or PCB, a toxic substance that has been found to cause cancer in rats.

The EPA report says PCBs have soaked into the concrete floors, walls, basement and stairwells of the building. PCBs have also been detected in the soil under the building.

In 1982, PCB Treatment Inc. began operating at the site. The company had a three-year permit to hop open electrical capacitors to remove fluids and internal parts.

PCBs were used as coolants and lubricants in capacitors, transformers and other electrical equipment.

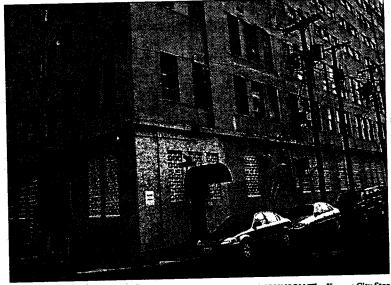


Photo by DELORES JOHNSON/The Kansas City Star

The building at 2100 Wyandotte St. is contaminated with polychlorinated biphenyl, or PCB, a toxic substance that has been found to cause cancer in rats, and will have to be "surgically" demolished.

The manufacture of PCBs stopped in the United States in 1977 based on scientific evidence of harmful effects

Cleaning up the site will not be easy. To keep the PCBs from spreading, the building will be torn down slowly to control dust resulting from the 17,900 tons of debris expected to be generated.

"Every bit of the concrete will have to be cut out and misted," said Levitt, who has participated in discussions with the EPA.

The property will be demolished from the roof down, dismantled piece-by-piece and shipped to landfills licensed to accept contaminated waste.

The cost of tearing down the building and excavating 150 tons of contaminated soil is expected to be

paid by "potentially responsible parties" — the companies and government agencies that contributed to the pollution.

The potentially responsible parties are not specifically identified in the EPA's action plan. The plan says customers of PCB Inc. included the "federal government, rural electric cooperatives, utility companies, cities, states, and large and small businesses."

The building is in the middle of a tax-increment financing district, but Kansas City economic development officials do not expect to provide substantial financing for the cleanur.

"We don't have the TIF dollars to offset that much of the cost," said Patrick Sterrett, a planner with the Economic Development Corp.

The TIF dollars — future tax revenues generated by projects within the district — are earmarked for other public improvements, such as the construction of parking garages

Now that the demolition of 2100 Wyandotte St. has been approved the EPA's next step is to set a schedule

Brian Gloe, co-chief executive of ficer of Rosse Lithographic Co., tenant in the building since 1972 said EPA officials are hoping to be gin demolition by August 2001.

Gloe's company and Swift Chemical are tenants in the building Gloe said some floors of the building had been closed so that peop were not exposed to the PCBs. An there are no airborne PCBs in the building.

"The building has been tested a much by the EPA," Gloe said. "I been tested and tested and retesta again. They have assured us the are no airborne PCBs, and there a none in the space we occupy."

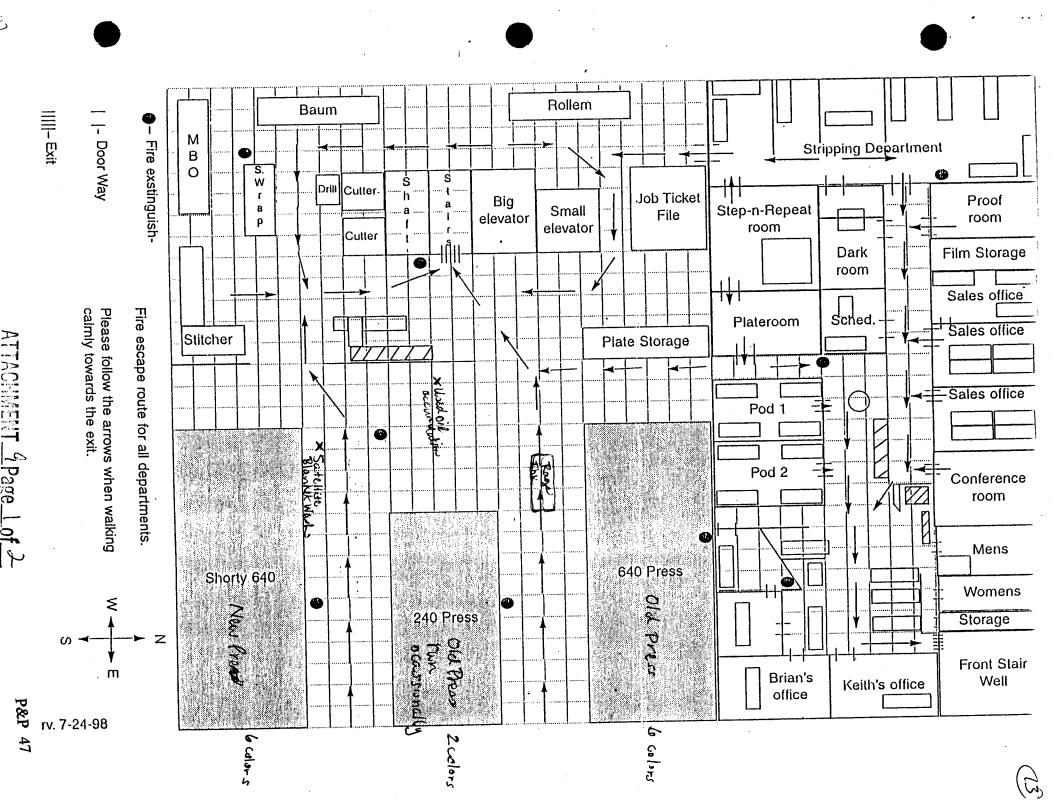
Gloe said the owners of the buil ing lived in Texas and referred que tions for them to Kansas City law. William Session, who could not reached for comment.

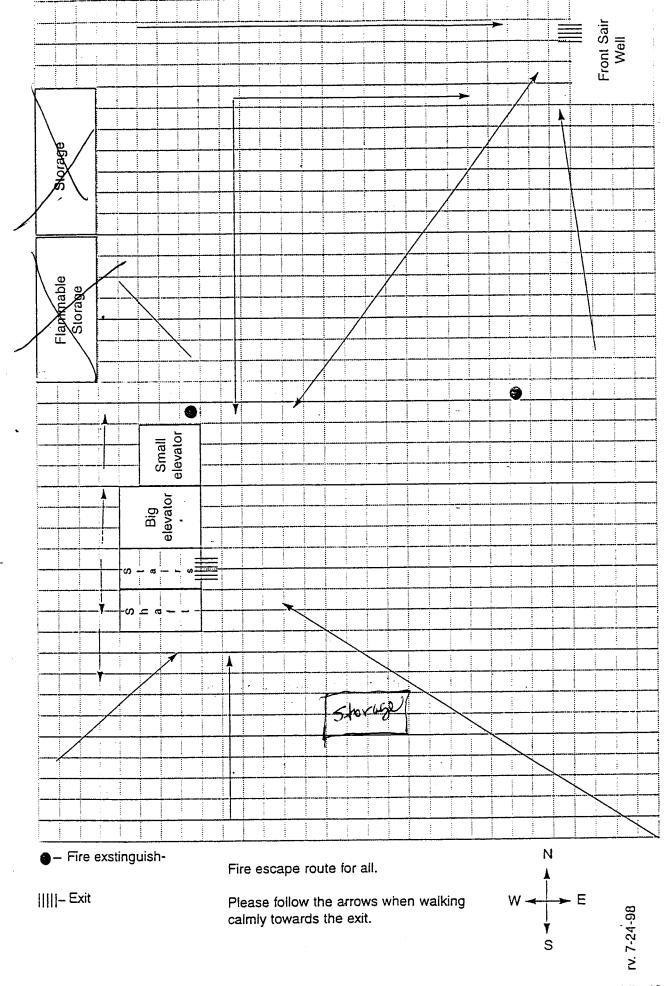
The action plan provides \$ million to relocate the tenants the building.

Other landowners in the Freig House district praised the decision

"This is one of the few hurd that need to be stepped over to co tinue the momentum of mak the Freight House district an am ing place to work and play and lisaid landowner Michael Rainen.

To reach Mark P. Couch, development reporter, call (816) 234-428 or send e-mail to mcouch@kcstar.com.





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the commence of the commence o	0	Title:
3. Does the facility representative generation and management pract: (How was this verified?) W. The Date Luculous of the	reast mire n MO	<i>-</i>
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FACILITY BACKGROUND WORKSHEET

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Activity f:	Page
6. Verified/compared above information with facility Notification	a Pora: 0 ms 0
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Is facility's status solidly within above category? (If not carefully verify status and document)	ZS D NO
3. TSD STATUS: Treatment Storage Disposal	
Note: Types of units, number of units, capacities, processes,	etc.
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MISSOURI DEPARTMENT OF NATURAL RESOURCES HAZARDOUS WASTE PROGRAM SMALL QUANTITY GENERATOR INSPECTION RECORD AND CHECKLIST

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. A.	GENERAL			
1. (Registered as a hazardous waste generator - Section 260.380.1 (1 RSMo and 10 CSR 25-5.262 (2)(A).) 1	GGF	COMMENTS
	Facility determines if waste is hazardous - 10 CSR 25-5.262(1 incorporating 40 CFR 262.11.) 1	GGF	Dependent on contractow and
3. [Utilizes a licensed hazardous waste transporter - Section 260.380.1(5 RSMo.	1	GGF	
4. [Utilizes authorized HW TSD or RR facility - Section 260.380.1(7) RSMo	. 1	GGF	1 On 11 What builds which theraw in the 1
5. [Facility does not operate as a TSD - Section 260.390(1) RSMo.	1	GGR	determination on old etching solute
	PART 1: WALK-THROU	GH IN	ISPEC	TION (Garess) + Dampling Solution. Doll too Doll too.
В.	PRETRANSPORT, CONTAINERIZATION & STORAGE			Dell 460.
	Storage does not exceed 180 days 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d) or 270 days if transported > 200 miles 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(e)	1	GSQ	COMMENTS -Biscel on stipment manifests + ginerates
2. [Containers in good condition - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(2) referencing 40 CFR 265.171.	1	GPT	lett, accumulated Blanket
3. [/	1	GPT	wash which is Dollh. w. fact over 270 days has his sent
4. [Containers closed in storage - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(2) referencing 40 CFR 265.173(a).	1	GPT	from 74747 * 9/28/99.
5. 🛭	Containers storing incompatible waste separated or protected from each other by a dike, berm or wall - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(2) referencing 40 CFR 265.177(c).	1	GPT	Shipmets were for takes
	Containers of ignitable or reactive waste stored > 50 ft. from property line (or meet requirements) - 10 CSR 25-5.262(2)(C)6 referencing 40 CFR 265.176 as amended by 10 CSR 25-7.265(2)(I) 7 and 8.	2	GOR	110
	Waste packaged/labeled/marked per DOT during entire on-site storage period - 10 CSR 25-5.262(2)(C)1.	2	GOR	- No labeling until picked up
8(Date of accumulation marked on containers - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(4) referencing 40 CFR 262.34(a)(2).	-2	GPT	Not ones in storing. Did have
9. 🗓	Containers protected from contact with accumulated liquids - 10 CSR 25-5.262(2)(C)2.D.(II).	2	GOR	~
10(Containers clearly marked "Hazardous Waste" - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(4) referencing 40 CFR 262.34(a)(3).	2	GPT	Not labeled.
	Facility inspected and maintained (weekly) - 10 CSR 25-5.262(2)(C)2.C.(II) referencing 40 CFR 265.174.	2	GPT	Hank rays doedaily, except working
12. 🗓	Daily inspection of areas subject to spills, i.e., waste handling areas - 10 CSR 25-5.262(2)(C)2.C:(II) referencing 40 CFR 265.195.	2		Pone daily if here.
13. 🗓	Adequate aisle space is available - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(4) referencing 40 CFR 265.35.	2	GPT	
14.	Placards available for transporter - 10 CSR 25-5.262(1) incorporating 40 CFR 262.33.	2	GPT	Bolg our.
<u> </u>	"No Smoking" signs conspicuously placed by ignitable or reactive wastes- 10 CSR 25-5.262(2)(C)2.F.(II).	2	GOR	No smoking facility signature
C. S	ATELLITE ACCUMULATION			1) min
10	Containers kept closed - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(c)(1)(i) referencing 40 CFR 265.173(a).	1	GPT	Container of comments (Dovi) not closed. Lays not dealle lug
2. 🖸	Containers in good condition - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(c)(1)(i) referencing 40 CFR 265.171.	.1	GPT	of system spection.
3. 🕡	Waste compatible with container - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(c)(1)(i) referencing 40 CFR 265.172.	1	GPT	
	Quantities accumulated not exceeding 55 gal. (1 quart of acutely-hazardous wastes) - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(c)(1).	1	GPT	
}	Satellite containers go to storage within 3 days of filling - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(c)(2).	1	GPT	- potrue lus did not seeBlanket wed (Doo1)
L	Container marked identifying contents & beginning date - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(c)(1)(ii) as amended by 10 CSR 25-5.262(2)(C)3.	2	GOR	-Blanket week (Doe1)
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•	7. 0	Stored in satellite areas less	than 1 year - 10 CSR 25-5	.262(2)(C)3.	2	GOR	COMMENTS	
	D. F	PREPAREDNESS AND PREV	ENTION AND EMERGE	NCY PROCE	DURE	s		
	1. ្រ្	Facility operated and mainta emergency - 10 CSR 25-5.2 referencing 40 CFR 265.31.	sined to minimize the po 62(1) incorporating 40 CF	R 262.34(d)(4)	1	GPT	COMMENTS	
	2(□	Adequate and proper spill equipment available (fire bla etc.) and properly tested a incorporating 40 CFR 262.3-amended by 10 CSR 25-5.262(5)	ankets, respirators, SCBA and maintained - 10 CS 4(d)(4) referencing 40 Ci	A, absorbents, SR 25-5.262(1)	2	GPT	None available	
	з. Ц	Adequate water supply and 5.262(1) incorporating 40 CFR and (d).	fire control equipment 262.34(d)(4) referencing 40	- 10 CSR 25- CFR 265.32(c)	2	GPT	Recamed fine inspection	
	4. 🖸	Communication and emergent CSR 25-5.262(1) incorporating 265.33.	cy equipment tested and n 40 CFR 262.34(d)(4) refer	naintained - 10 encing 40 CFR	2	GPT	Phones by comments muchines. Used all the time.	
	5. 🖸	Emergency coordinator's name and phone number posted near phone - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(5)(ii).			2	GSQ	Hank'	
		Telephone number of fire dept 5.262(1) incorporating 40 CFR 2	262.34(d)(5)(ii).		2	GSQ	Maccess. Also have automatic	٠ ٠.
	<u> </u>	Location of fire extinguisher a phone - 10 CSR 25-5.262(1) inc	corporating 40 CFR 262.34	(d)(5)(ii).	2	GSQ.		
		Employees familiar with waste 10 CSR 25-5.262(1) incorporation	ng 40 CFR 262.34(d)(5)(iii).		2	GSQ	harked on many but man not por being updated; summarking yearly hay not training + MSDS pratection, Charicals;	fro
	9. 🔼	emergency assistance - 10 262.34(d)(4) referencing 40 CFF	CSR 25-5.262(1) incorpor R 265.34(a).	ating 40 CFR	2	GPT	principly Chimicals;	m
		Telephone or two-way radio o fire or police dept 10 C 262.34(d)(4) referencing 40 CFF	SH 25-5.262(1) incorpora	nmoning local ating 40 CFR	2	GPT		•
_	E. S	OG TANKS						
Ų		TANK DESIGNATION	CONTENTS	CAPAC	CITY		CONTAINMENT A	GE
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	3.							
	1. 🗆	Uncovered tanks have 2 ft. free 25-5.262(1) incorporating 40 265.201(b)(3).	eboard or containment sys CFR 262.34(d)(3) referen	stem - 10 CSR cing 40 CFR	1	GPT	COMMENTS	
	2. 🗆	Continuously fed tanks equip proper by-pass system - 10	oped with a feed cut-off					
	3. 🗆	202.34(a)(3) referencing 40 CFH	CSR 25-5.262(1) incorpor 265.201(b)(4).	ating 40 CFR	1	GPT		
		262.34(d)(3) referencing 40 CFR Waste and/or treatment metho 5.262(1) incorporating 40 Cl 265.201(b)(2).	l 265.201(b)(4).	ating 40 CFR	1	GPT GPT		
L	4. 🗆	Waste and/or treatment metho 35.262(1) incorporating 40 C	d is compatible with tank FR 262.34(d)(3) reference	ating 40 CFR 1 - 10 CSR 25- cing 40 CFR				
		Waste and/or treatment metho 5.262(1) incorporating 40 Ci 265.201(b)(2).	d Is compatible with tank FR 262.34(d)(3) reference ed in same tank - 10 CS (3) referencing 40 CFR 265. Endered safe/protected fro	ating 40 CFR - 10 CSR 25- cing 40 CFR - R 25-5.262(1) 201(f)(1).	1	GPT		
	5. 🗆	Waste and/or treatment metho 35.262(1) incorporating 40 Ci 265.201(b)(2). Incompatible wastes not plac incorporating 40 CFR 262.34(d)(Ignitable or reactive wastes re Ignition or reaction - 10 C	d is compatible with tank FR 262.34(d)(3) reference ed in same tank - 10 CS (3) referencing 40 CFR 265. Indered safe/protected fro SR 25-5.262(1) incorpora in cover tanks treater zone requirements	ating 40 CFR 1-10 CSR 25- 10 CFR	1	GPT GPT		
	5.	Waste and/or treatment method 5.262(1) incorporating 40 Cl 265.201(b)(2). Incompatible wastes not place incorporating 40 CFR 2d2.34(d)(d) Ignitable or reactive wastes relignition or reaction - 10 Cd2.34(d)(3) referencing 40 CFR Ignitable or reactive wastes accordance with NFPA's buff 5.262(1) incorporating 40 Cl 265.201(e)(2). Volatiles with vapor pressure > tanks - 10 CSR 25-5.262(2)(C)2	d is compatible with tank FR 262.34(d)(3) referenced in same tank - 10 CS (3) referencing 40 CFR 265. Indered safe/protected from SR 25-5.262(1) incorporate 265.201(e)(1). In covered tanks treater zone requirements - FR 262.34(d)(3) reference-78 mm Hg @ 25° C not p.F.(I).	ating 40 CFR 1-10 CSR 25- 10 CFR 1R 25-5.262(1) 201(f)(1). 10 m sources of thing 40 CFR 10 CSR 25- 10 CSR 25- 10 CFR 1aced in open	1 1 1	GPT GPT		
	5.	Waste and/or treatment method 5.262(1) incorporating 40 Cl 265.201(b)(2). Incompatible wastes not place incorporating 40 CFR 2d2.34(d)(d) Ignitable or reactive wastes relignition or reaction - 10 Cd2.34(d)(3) referencing 40 CFR Ignitable or reactive wastes accordance with NFPA's buff 5.262(1) incorporating 40 Cl 265.201(e)(2). Volatiles with vapor pressure > tanks - 10 CSR 25-5.262(2)(C)2 Wastes and residues removed properly upon closure > 10 CFR 262.34(d)(3) referencing 40 CFR	d is compatible with tank FR 262.34(d)(3) referenced in same tank - 10 CS (3) referencing 40 CFR 265. Indered safe/protected from SR 25-5.262(1) incorporated in covered tanks treated the covered tanks treated tanks treated the covered tanks treated tan	ating 40 CFR 1-10 CSR 25- 10 CFR 1-10 C	1 1 1	GPT GPT GPT		
	5.	Waste and/or treatment methor 5.262(1) incorporating 40 Cl 265.201(b)(2). Incompatible wastes not place incorporating 40 CFR 2d2.34(d)(d) Ignitable or reactive wastes resignition or reaction - 10 Cl 262.34(d)(3) referencing 40 CFR Ignitable or reactive wastes accordance with NFPA's buff 5.262(1) incorporating 40 Cl 265.201(e)(2). Volatiles with vapor pressure > tanks - 10 CSR 25-5.262(2)(C)2	d is compatible with tank FR 262.34(d)(3) referenced in same tank - 10 CS (3) referencing 40 CFR 265. Indered safe/protected from SR 25-5.262(1) incorporated 1265.201(e)(1). In covered tanks treater zone requirements - FR 262.34(d)(3) reference - 78 mm Hg @ 25° C not p.F.(I). In from tank and equipment CSR 25-5.262(1) incorporated 1265.201(d). arked "Hazardous Waste"	ating 40 CFR 1-10 CSR 25- 10 GR 25- 10 CFR 1-10 CSR 25- 10 CSR 25-	1 1 1 1	GPT GPT GPT GOR		

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. t/\/free	epection of waste feed cut off, bypass system, monitoring data and eboard each operating day - 10 CSR 25-5.262(1) incorporating 40 R 262.34(d)(3) referencing 40 CFR 265.201(c).	2	GPT	COMMENTS
- \\ 5.2	ekly Inspection of confinement structure, construction materials general area for leaks, corrosion or discharges - 10 CSR 25-62(1) incorporating 40 CFR 262.34(d)(3) referencing 40 CFR 5.201(c)5.	.	GPT	1 ~/A
	PART 2: RECORDS	INSP	ECTIO	N
F. MAMI	FESTS			
agn	eility uses manifest system or wastes reclaimed under contractual element - 260.380.1(6) RSMo and 10 CSR 25-5.262(2)(B) or 10 CSR 25-52(1) incorporating 40 CFR 262.20(e)1.	1	GMR	COMMENTS
leas	nerator maintains a copy of the reclamation agreement on-site for at st 3 years after expiration of agreement - 10 CSR 25-5.262(1) incorporating CFR 262.20(e)(2).	2	GMR	Check on Truer reclaration
3. D Rec	cords maintained for a 3 year period - 10 CSR 25-5.262(1) incorporating 40 R 262.40(a).	2	GRR	
4 Gen	nerator's MO & EPA I.D. Numbers - 10 CSR 25-5.262(1) incorporating 40 R 262.20(a) as amended by 10 CSR 25-5.262(2)(B)1.	2	GOR	- Wrong EPAID # on Manylest #
5 (1) Mar 5,26	nifest document ID and consecutive shipment numbers - 10 CSR 25-32(2)(B)2.A.	2	GOR	Hong EPAED# on Manyer# #5.+#6 (hext to last clige Reused #00002 on 116/99 \$
6. 🖸 Gen	nerator's name, address and phone number - 10 CSR 25-5.262(2)(B)1.	2	GMR	1 p/49 }
7. 🖸 All t	transporters' names, phone numbers, license plate #s, MO & EPA LD.#s CSR 25-5.262(2)(B)1 and 2.	2	GMR	
8. Des 5.26	ignated facility name, address, phone, MO & EPA I.D.#, - 10 CSR 25- 2(2)(B)1 and 2.	2	GMR	and the down not mately pr
9 DOT CSP	shipping name, Hazard Class and waste LD. # (RQ - If required)- 10 3 25-5.262(2)(B) 1 and 2.	2	GMR	DOT shipping hame does not mately pro- 10/27/84 margent, specific granity
10. Con	tainers, quantity and specific gravity designated • 10 CSR 25-5.262(2)8 of 2.	2	GMR	specific gravity not listed an
. 🗆 Man	nifest signed and dated - 10 CSR 25-5.262(2)B 1.	2	GMR	Specific gravity not hotel on manifest # 00002, 10/27/99, # # 00003, 10/27/99 for Do 11 (silver) Etching soln stopped
12. 140ut 5.26	of state manifests have all required MO information - 10 CSR 25-2(2)(B)4.A.	2	GOR	
13. 🖾 Man	ifest continuation sheets are not used - 10 CSR 25-5.262(2) (B)1 .	2	GOR	: A
4. D Man days	ifest returned within 35 days - or exception report submitted within 45 s - 10 CSR 25-5.262(2)(D)2.C.	2	GRR	Doll (alun)
· anni	ifest summary reports and manifests sent to DNR quarterly OR ually if one shipment or no shipments are made - 10 CSR 25-2(2)(D)1.B and 10 CSR 25-5.262(2)(D)1.E.	2	GOR	LDR hotiw fleel 11/16/99 List this
268.		2	GLB	Dangering + 03066
- aiiib	nd-Ban" notification/certification sent with manifests or with 1st ment under a tolling agreement - 10 CSR 25-7.268(1) incorporating FR 268.7(a).	2	GLB	LDR hote fled 11/16/99 but ships regulated waste to MEI - mo on
was 268.	fication/certification includes correct EPA hazardous waste ther, corresponding treatment standards, manifest number, and te analysis data - 10 CSR 25-7.268(1) incorporating 40 CFR 7(b)(4) and (5).	2	GLB	LDK hope gill most -mo on right bed sign for the most for most for most most for most father had and which the father was for some find the for some finds was for some finds to some fi
. PREPA	AREDNESS AND PREVENTION			£3006
1. D Arra	ingements with local emergency agencies - 10 CSR 25-5.262(1) reporating 40 CFR 262.34(d)(4) referencing 40 CFR 265.37.	2	GPT	Permitted through the marchall. Honeya has hotifictin wifere dept.
111001	ergency coordinator(s) on premise or on call - 10 CSR 25-5.262(1) reporating 40 CFR 262.34(d)(5)(i).	2	GSO	- where you say offee ceyps.
	OIL STORAGE			
/ 31.1.1.	d oil is managed properly and not disposed of into the ronment or cause a public nuisance - 10 CSR 25-11.279(2)(B)4.B.	1	COR	
/	tainers in good condition - 10 CSR 25-11.279(1) incorporating 40 279.22(b)(1).	2		· ·
3. Q Contincor incor 780-1602 (9-9)	tainers storing used oil are not leaking - 10 CSR 25-11.279(1) porating 40 CFR 279.22(b)(2).	2		
1002 (9-9)	AllAUraview	iZc	1 48	C

Description of the property of	•							
The special of the processing of CPR 272-26(c)(R) Concineration of CPR 272-26(c)(R) Contineration which are exposed to rainfal are closed - 10 CSR 25 2	•	1	Containers/aboveground tanks are labeled or marked clearly "Used Oil" - 10 CSR 25-11.279(1) incorporating 40 CFR 279.22(c)(1).	2	14	abeliel was	COMMENTS &	
THIS Class up any spills or leaks of used oil - 10 CSR 25-11.279(1) 2 This corporating do CFR 278.22(d). A CSR 25-11.279(1)(20)(2). LON-STIELEMENTIC SITUATION on used oil or used oil from Differs or exempt farmers CSR 25-11.279(1)(20)(2). Burn only in space heaters with design capacity c. 5 million BTURr - 10 CSR 25-11.279(1)(20)(2). CSR 25-11.279(1)(20)(20)(3). CSR 25-11.279(1)(20)(2		5.	''labeled or marked clearly "Used Oil" - 10 CSR 25-11.279(1)	2		• •		
SALES Alterures of used oil and hazardous waste are properly managed - 10 CSR 25-11.279(1) (1912)		6.	Containers/tanks which are exposed to rainfall are closed - 10 CSR 25-11.279(2)(C)6.	2		and		• •
SALES Alterures of used oil and hazardous waste are properly managed - 10 CSR 25-11.279(1) (1912)		7(0		2	7	eak on floor	/1s+floor ceiling b	sards
1. Quant conty that own used oil to used oil from DIY as or exempt farmers 1 (1 CSR 25-11.279(1) proopposing 40 CFR 279.20(a). 2. Burn only in space heaters with design capacity < 5 million BTU/hr - 10 1 CSR 25-11.279(1) proopposing 40 CFR 279.23(b). 3. Quant conty in space heaters with design capacity < 5 million BTU/hr - 10 1 CSR 25-11.279(1) proopposing 40 CFR 279.23(c). 3. Quant conty in space heaters with design capacity < 5 million BTU/hr - 10 1 1 CSR 25-11.279(1) proopposing 40 CFR 279.23(c). 3. Quant conty in space heaters of CSR 12-12.29(c) proposing 40 CFR 279.24. 4. Quant conty in space in the space of the spac			CSR 25-11.279(2)(B)(2).	2				
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CSR 25-11.279(1) incorporating 40 CFR 279-226). J. OFR-SITE SHIPMENTSTO APPROVED COLLECTION CENTERS I. ID Used oil is transported by transportars who have obtained EPA Identification numbers - 10 CSR 11.279(1) incorporating 40 CFR 279-24. [If no locased transporter is used) J. Transports used oil in a vehicle owned by the generator or owned by an operatory or owned by an operatory of the generator - 10 CSR 25-11.279(1) incorporating 40 CFR 279-24(a)(1). J. Transports used oil in a vehicle owned by the generator or owned by an operatory of the generator - 10 CSR 25-11.279(1) incorporating 40 CFR 279-24(a)(1). Transports the used oil to used oil collection center that is registered. Illicansed, permitted, or recognized by a state/county/municipal government to manage used oil - 10 CSR 25-11.279(1) incorporating 40 CFR 279-24(a)(3). R. Transports the used oil to a used oil collection center that is registered. Illicansed, permitted, or recognized by a state/county/municipal government to manage used oil - 10 CSR 25-11.279(1) incorporating 40 CFR 279-24(a)(3). R. J. Jaed oil is reciaimed under a contractual agreement (tolling arrangement) - 10 CSR 25-11.279(1) incorporating 40 CFR 279-24(c). R. RESOURCE RECOVERY J. J		140	17 10 CSR 25-11.279(1) incorporating 40 CFR 279.23(a).	1		1)/0	COMMENTS	
J. OFFSITESHIBMENTS TO APPROVED COLLECTION CENTERS 1. D'Asset transported by transporters who have obtained EPA identification numbers - 10 CSR 12 1279(1) incorporating 40 CFR 279.24. 1. [If no Keensed transporter is used) 2. [J. [Panaports used oil in a vehicle owned by the generator or owned by an opportunity of the property of the comment of the physics of the generator - 10 CSR 25-11279(1) incorporating 40 CFR 279.24(a)(1). 3. [Transports no more than SS gallons of used oil at any time - 10 CSR 25- 1. [279.24(a)(1)] 4. [Transports the used oil to used oil collection center that is registered, licensed, permitted, or recognized by a state/country/municipal government to manage used oil - 10 CSR 25-11.279(1) incorporating 40 CFR 279.24(a)(2). 5. [Transports the used oil to an aggregation point that is owned and/or operated by the same generator - 10 CSR 25-11.279(1) incorporating 40 CFR 279.24(a)(3). 7. [Pasted oil is reclaimed under a contractual agreement (toiling arrangement) - 10 CSR 25-11.279(1) incorporating 40 CFR 279.24(c). 7. [Pasted oil is reclaimed under a contractual agreement (toiling arrangement) - 10 CSR 25-11.279(1) incorporating 40 CFR 279.24(c). 7. [Pasted oil is reclaimed under a contractual agreement (toiling arrangement) - 10 CSR 25-11.279(1) incorporating 40 CFR 279.24(c). 7. [Pasted oil is reclaimed under a contractual agreement (toiling 2 arrangement) - 10 CSR 25-1.279(1) incorporating 40 CFR 279.24(c). 7. [Pasted oil is reclaimed under a contractual agreement (toiling 2 arrangement) - 10 CSR 25-9.020(3)(A). 2. [District of the property of the property - Section 1 GOR 20.386.17) RSMo. 3. [District of the property of the property - Section 1 GOR 20.386.17) RSMo. 5. [Pacility meets the operating conditions of certification - 10 CSR 25-9.020(3)(A). 2 GOR 25-25-264(2)(E). 6. [Pacility report submitted to DNR quarterly - 10 CSR 25-9.020(3)(E) and (2) as mostified EPA and the state that it qualifies for a small quantity on-this burner agreement on this interim status or a per			CSR 25-11.279(1) incorporating 40 CFR 279.23(b).			NIA		
1. Used oil is transported by transporters who have obtained EPA I identification numbers - 10 CSR 11.278(1) incorporating 40 CFR 275.24. [If no licensed transporter is used) Transports used oil in a vehicle owned by the generator or owned by an experience or worded by an experience of used oil at a vehicle owned by the generator or owned by an experience of used oil at a vehicle owned by the generator or owned by an experience of used oil at a vehicle owned by the generator or owned by an interference of the generator - 10 CSR 25-11.278(1) incorporating 40 CFR 279.24(a)(2). Transports the used oil to a used oil collection center that is registered, licensed, permitted, or recognized by a statisfocurity/municipal government to manage used oil - 10 CSR 25-11.279(1) incorporating 40 CFR 279.24(a)(3). Transports the used oil to an eggregation point that is owned and/or operated by the same generator - 10 CSR 25-11.279(1) incorporating 40 CFR 279.24(a)(3). Transports the used oil to an eggregation point that is owned and/or operated by the same generator - 10 CSR 25-11.279(1) incorporating 40 CFR 279.24(b)(3). Transports the used oil to an eggregation point that is owned and/or operated by the same generator - 10 CSR 25-11.279(1) incorporating 40 CFR 279.24(b)(3). Transports the used oil to an eggregation point that is owned and/or operated by the same generator - 10 CSR 25-11.279(1) incorporating 40 CFR 279.24(b)(3). Transports the used oil to an eggregation point that is owned and/or operated by the same generator - 10 CSR 25-11.279(1) incorporating 40 CFR 279.24(b)(1). Transports the used oil to an edgregation point that is owned and/or operations on an experience of the same than expe	L	,	V CSR 25-11.279(1) incorporating 40 CFR 279.23(c).	1		\bigvee	•	
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Ilcensed, permitted, or recognized by a state/county/municipal government to manage used oil - 10 CSR 25-11.279(1) incorporating 40 CFR 279.24(a)(3). Transports the used oil to an aggregation point that is owned and/or operated by the same generator - 10 CSR 25-11.279(1) incorporating 40 CFR 279.24(b)(3). CR 279.24(b)(3). Jised oil is reclaimed under a contractual agreement (tolling arrangement) - 10 CSR 25-11.279(1) incorporating 40 CFR 279.24(c). CR 279.24(b)(3). Table oil is reclaimed under a contractual agreement (tolling arrangement) - 10 CSR 25-11.279(1) incorporating 40 CFR 279.24(c). Table oil is reclaimed under a contractual agreement (tolling arrangement) - 10 CSR 25-11.279(1) incorporating 40 CFR 279.24(c). Table oil is reclaimed under a contractual agreement (tolling arrangement) - 10 CSR 25-10.20(1)(A). Table oil is reclaimed under a contractual agreement (tolling arrangement) - 10 CSR 25-9.020(3)(A). Table oil is reclaimed under a contractual agreement (tolling 2	Ŀ	3. []	11.279(1) incorporating 40 CFR 279.24(a)(2).	2		•	. •	•
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6. D Jused oil is reclaimed under a contractual agreement (tolling arrangement) - 10 CSR 25-11.279(1) incorporating 40 CFR 279.24(c). RESOURCERECOVERY AR certification for energy recovery or reclamation of hazardous Taste on-site - 10 CSR 25-9.020(1)(A)3. 2. Still bottoms or RR residues disposed of property - Section 1 GOR 260.380.1(7) RSMo. 3. Facility is classified as U, R1, or R2 accurately - 10 CSR 25-9.020(3)(A). 2 GOR 4. Facility meets the operating conditions of certification - 10 CSR 25- 2 GOR 9.020(3). 5. Facility has submitted a written request and received approval from the DNR for all changes in operation including closure - 10 CSR 25- 9.020(3)(E) and 2. 6. Facility report submitted to DNR quarterly - 10 CSR 25-9.020(3)(E)6 2 GOR referencing 10 CSR 25-7.264(2)(E)3. 7. Facility maintains a complete written operating record - 10 CSR 25- 9.020(3)(E)5 referencing 40 CFR 264.73(b)(1) and (2) as modified by 10 2 GOR CSR 25-7.264(2)(E)2. 8. Facility has notified EPA and the state that it qualifies for a small quantity on-site burner exemption or has interim status or a permit if it burns hazardous waste on-site - 10 CSR 25-7.266(1) incorporating 40 CFR 266.108 and 40 CFR 266.103.			operated by the same generator + 10 CSR 25-11,279(1) incorporating 40	2	•		and the second second second second second second	* ** * * * * * * * * * * * * * * * * *
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Circle the if not in compliance and provide comment.	•		
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INSPECTOR'S SIGNATURE

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informational purposes only and DO NOT require specific actions by the facility

D Summarized the findings and observations for the facility representatives

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EXBW-1 of 2

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DOCUMENTATION: ROW are the facts known? WHO said what? WHEN did it happen? and WHAT PROOF WAS OBTAINED?

The information summarized below has been entered into EPA's RCRA Computer Data Base for the INSTALLATION LOCATION AND EPA RCRA Identification Number listed. If any of this information is inaccurate, you may notify us of the change(s) by writing to us, telephoning us, or by completing a Notification of Regulated Waste Activity Form (EPA Form 8700-12), a copy of which is attached, or simply marking any changes on this report and sending it to EPA at:

EPA REGION 7 - ARTD/RESP 901 N 5th Street KANSAS CITY, KANSAS 66101

Your cooperation in helping us to maintain accurate records is appreciated. If you have any questions, please call our Iowa RORA Hazardous Waste Inquiry Helpline number (913) 551-7861, and leave a message. Someone will get back to you as soon as possible.

EPA RCRA ID Number:

Name of Company/Installation: Location of Installation:

City/State/Zip:

County:

Mailing Address: City/State/Zip:

Installation Contact:

Job Title: Phone Number:

Contact's Address:

City/State/Zip:

MOD985805464

Gloe Graphics Inc. DBA ROSSE LITHOGRAPHING CO 2100 WYANDOTTE 2ND FL KANSAS CITY, MO 64108

JACKSON

2100 WYANDOTTE 2ND FL KANSAS CITY, MO 64108

BRIAN GLOE Co-680

(816) 842-4669

2100 WYANDOTTE 2ND FL KANSAS CITY, MO 64108

Current Owner of Installation:

Owner's Address: City/State/Zip:

one Number:

Land Type:

Owner Type:

- DOLORES, BRIAN, KEITH GLOE Business Only, hot bldg

NA, MO (NA)

TYPE (S) OF REGULATED ACTIVITY:

SMALL QUANTITY GENERATOR

Hazardous Wastes Handled:

DOOI, Used Oil

Building - Sam + Linda Long #1.3 M lien ombuilding ne: PCB Inc. Continuetion.
Office on 1st floor; but people in Texas

SPFD has their address + phone #

All information you submit in a notification can be released to the public, according to the Freedom of Information Act, unless it is determined to be confidential by U.S. EPA pursuant to 40 CFR Part 2. Since notification information is very general, the U.S. EPA believes it is unlikely that any information in your notification could qualify to be protected from release. However, you may make a claim of confidentiality by printing the word "CONFIDENTIAL" on both sides of the Notification Form and on any attachments or submittals including this information report. EPA will take action on the confidentiality claims in accordance with 40 CFR Part 2.



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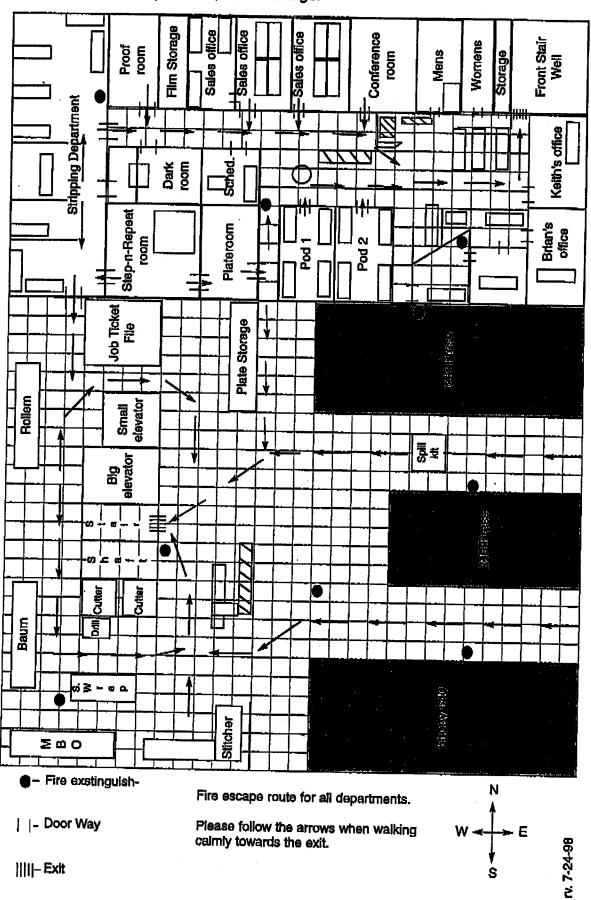
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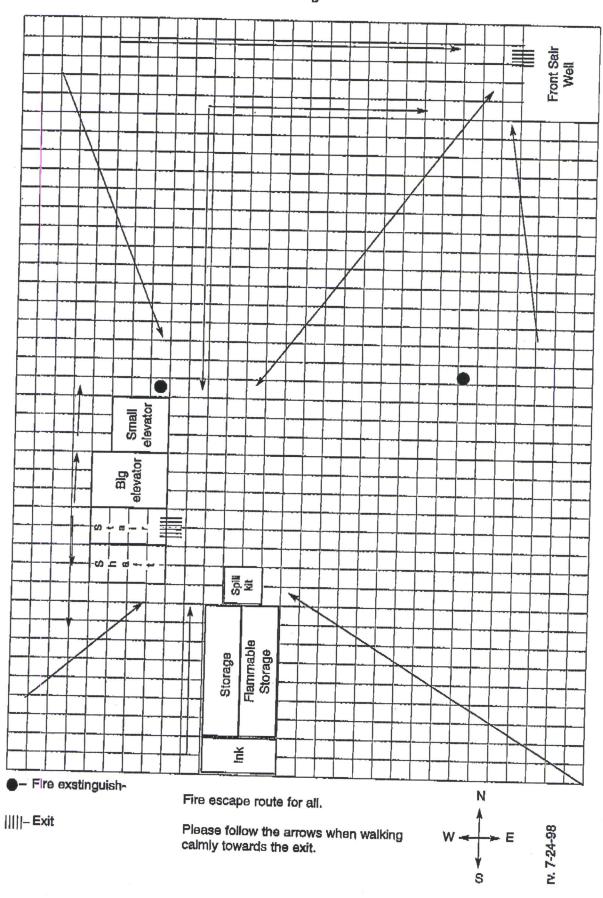
Our Goal Is Delighted Customers!

Thank You.

In case of emergency contact, Plant Manager



In case of emergency contact, Plant Manager







Philips Lighting Company

MATERIAL SAFETY DATA SHEET

PRODUCT: ALTOTA Fluorescent Lamp

F-96/T-12/RS/CW/EWII/ALTO

Revised 10/16/96

SECTION 1: MANUFACTURER

Manufacturer's Name and Address:

Philips Lighting Company
A division of Philips Electronics
North America Corporation
200 Franklin Square Drive
Somerset, New Jersey 08875

Emergency Telephone No.: (908)563-3197 Other Information Calls: (908)563-3488

TS

	OSHA (PEL) mg/m³	ACGIH (TLV) mg/m³ TWA	% by Wt.
Inert Ingredients (Glass, Alumir	ium, etc.)		Approx 97%
Phosphor Powder Nuisance Dust	15	10	Approx 3%
Fluorides* (#5 F) Antimony*(7440-36-0) Manganese*(7439-96-5) Mercury (7439-97-6)	-5 -2 -1	2.5 .5 .2 .025	Approx .01% Approx .01% Approx .02% < than 20 ppm

These materials are tightly bound within the crystal matrix of the phosphor (Calcium Phosphate).

SECTION 3: CHEMICAL/PHYSICAL DATA

Not applicable. This item is a light bulb. The bulb is glass, the base is a coated aluminum. The coating is inert.

A division of Philips Destronics Name America Corporation 200 Franklin Square Dylos P.O. Box 6400 Somerset. NJ 08875-6800 Ref. 908 663-3000

ATTACHMENTO Page 4 of 60





Philips Lighting Company

MSDS - ALTOM Fluorescent Lamps Page 2 of 3

SECTION 2: HAZARDOUS INGREDIENTS (Cont'd)

Mercury (7439-97-6)

.025

< than 20 ppm

† PEL & TLV are given for magnesium, ahuminum oxide, and yttrium. Barium ahuminate is not a soluble compound.

.1

SECTION SCHEMICAL PRIVSICAL DATA

Not applicable. This item is a light bulb 4 ft. long, 1,5 inches in diameter. The bulb is glass, the base is a coated aluminum. The coating is inert.

SECTION 4:FIRE AND EXPLOSION DATA

FIRE AND EXPLOSION DATA NOT APPLICABLE - under extreme heat, glass envelope

SECTION 5:

REACTIVITY DATA

Stability:

Lamp is stable,

Polymerization:

Not applicable,

Incompatability. Glass will react with Hydrofluoric Acid.

SECTION 6: HEALTH HAZARD DATA

Not applicable to the intact lamp. Breakage of the lamp may result in some exposure to the phosphor powder dust and to a very little amount of elemental mercury vapor. No adverse affects are expected from occasional exposure to broken lamps, but as a matter of good practice, prolonged or frequent exposure should be avoided through the use of adequate ventilation during disposal of large quantities of lamps.

EMERGENCY FIRST AID: NORMAL FIRST AID PROCEDURE FOR GLASS CUTS IF SUCH OCCUR THROUGH LAMP BREAKAGE

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Philips	Lighting	Company

MSDS - ALTON Floorescent Lamps
Page 3 of 3

SECTION 7: PRECAUTIONS FOR SAFE HANDLING AND USE

Normal precautions should be taken for the collection of broken glass.

Waste Disposal Method: At the end of rated life, when this lamp is removed from service, it will, when subjected to the current Toxic Characteristic Leaching Procedure (TCLP) prescribed by the Environmental Protection Agency for determining whather an item is a hazardous waste, be listed as a non-bazardous waste under current E. P. A. definition. Philips Lighting will provide the test protocol on request. This result will allow the end user to evaluate all of the disposal options which may be available in the particular state in which the generator facility is located. This lamp passes all of the tests required by California to qualify as a non-bazardous waste in that state. The generator should check with local and state officials for their guidance. Philips encourages recycling of its products by qualified recyclers.

SECTION 8: CONTROL MEASURES

Respiratory Protection: Appropriate dust mask should be used if large quantities of lamps are being broken for disposal.

Ventilation: Avoid inhalation of any airborne dust. Provide local exhaust when disposing of large quantities of lamps.

Hand and Eye Protection: Appropriate hand and eye protection should be worn when disposing of large quantities of lamps or handling broken lamps.

SECTION 9: REGULATORY INFORMATION

Under current federal regulations, the ALTOTA lamp will qualify as a Subtitle "D" waste.

January 1996

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A division of Fhilips diseasented North America Corporation

See Franklin Square Drive. 1952 Box 6800 Supposes, NJ (68173-6800) Tell 700 563-3000

ATTACHMENT LA Page Coof 60



PHILIPS

Philips Lighting Company

MATERIAL SAFETY DATA SHEET

Revision: 7/15/96

PRODUCT: ALTOM Fluorescent Lamp (34W Econ-O-Watt's Cool White)

34 W Econo-Wattra (Cool White & Warm White)

Spec Econo-Watt' Scries

UltralumeTM Series

SECTION 1: MANUFACTURER

Manufacturer's Name and Address:

Philips Lighting Company A division of Philips Electronics North America Corporation 200 Franklin Square Drive Somerset, New Jersey 08875

Emergency Telephone No.: (908)563-3197 Other Information Calls: (908)563-3488

SECTION 2: HAZARDOUS	INGREDIENTS OSHA (PEL) mg/m²	ACGIH (TLV) mg/m³ TWA	% by Wt.
Inert Ingredients (Glass, Alumini If Cool White or Warm White: Phosphor Powder	um_etc)		Approx 97%
Nuisance Dust Fluorides* (as F)	15	10 2.5	Approx 3% Approx .01%
Antimony*(7440-36-0) Manganese*(7439-96-5)	.5 .2	.5 .2	Approx .01% Approx .02%

^{*}These materials are tightly bound within the crystal matrix.

If Spec or Ultralume, may have some of the above, but main phosphor components are listed below:

Cerium Magnesium Terhium
Aluminate†
N/A
Barium Magnesium aluminate†
N/A
Yttrium Oxide (1314-36-9)†
1.0
Approx .5%
Approx .5%

A sintson of Philips Electronics North America Corporation

200 Franklin Square Drive P.C. Bern 6200 Sourceset, NJ 06875-6500 Teb 709 563-3000





Philips Lighting Company

MSDS — T-12/RS/CW/EWII/ALTO Page 2 of 3

SECTION 4: FIRE AND EXPEOSION DATA

FIRE AND EXPLOSION DATA NOT APPLICABLE - under extreme heat, glass envelope might melt or crack

SECTION 5: REACTIVITY DATA

Stability:

Lamp is stable.

Polymerization:

Not applicable.

Incompatability: Glass will react with Hydrofluoric Acid.

SECTION 6: HEALTH HAZARD DATA

Not applicable to the intact lamp. Breakage of the lamp may result in some exposure to the phosphor powder dust and to a very little amount of elemental mercury vapor. No adverse affects are expected from occasional exposure to broken lamps, but as a matter of good practice, prolonged or frequent exposure should be avoided through the use of adequate ventilation during disposal of large quantities of lamps.

EMERGENCY FIRST AID: NORMAL FIRST AID PROCEDURE FOR GLASS CUTS IF SUCH OCCUR THROUGH LAMP BREAKAGE.

SECTION 7: PRECAUTIONS FOR SAFE HANDLING AND USE

Normal precautions should be taken for the collection of broken glass.

Waste Disposal Method: At the end of rated life, when this lamp is removed from service, it will, when subjected to the current Toxic Characteristic Leaching Procedure (TCLP) prescribed by the Environmental Protection Agency for determining whether an item is a hazardous waste, be listed as a non-hazardous waste under current E. P. A. definition. Philips Lighting will provide the test protocol on request. This result will allow the end user to evaluate all of the disposal options which may be available in the particular state in which the generator facility is located. The generator should check with local and state officials for their guidance. Philips encourages recycling of its products by qualified recyclers.

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PHILIPS

Philips Lighting Company

MSDS - T-12/RS/CW/EWII/ALTO
Page 3 of 3

SECTION 8: CONTROL MEASURES

Respiratory Protection: Appropriate dust mask should be used if large quantities of lamps are being broken for disposal.

Ventilation: Avoid inhalation of any airborne dust. Provide local exhaust when disposing of large quantities of lamps.

Hand and Eye Protection: Appropriate hand and eye protection should be worn when disposing of large quantities of lamps or handling broken lamps.

SECTION 9: REGULATORY INFORMATION

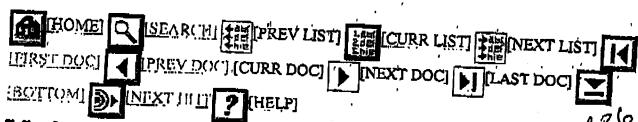
Under current federal regulations, the ALTOTA lamp will qualify as a Subtitle "D" waste.

September 1996

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ATTACHMENT 12 rage 9 of 60



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610857-00 MOBILGEAR .626 MATERIAL SAFETY DATA BULLETIN

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MOBILGEAR 626 SUPPLIER: MOBIL OIL CORP.

NORTH AMERICA MARKETING AND REFINING

3225 GALLOWS RD.

FAIRFAX, VA 22037

24 - Hour Emergency (call collect): 609-737-4411

Product and MSDS Information:

CHEMTREC; 800-662-4525 856-224-4644 800-424-9300 202-483-7616

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS: PET. HYDROCARBONS AND ADDITIVES INGREDIENTS CONSIDERED HAZARDOUS TO HEALTH: This product is not formulated to contain ingredients which have exposure limits established by U.S. agencies. It is not hazardous to . health as defined by the European Union Dangerous . Substances/Preparations Directives. See Section 15 for a regulatory analysis of the ingredients. See Section 15 for European Label Information. See Section 8 for exposure limits (if applicable).

3. HAZARDS IDENTIFICATION

US OSHA HAZARD COMMUNICATION STANDARD: Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined not to be hazardous. EFFECTS OF OVEREXPOSURE: No significant effects expected. EMERGENCY RESPONSE DATA: Amber Liquid. DOT ERG No. - NA

4. FIRST AID MEASURES

EYE CONTACT: Flush thoroughly with water. If irritation occurs, call

http://emmsds.ihspsl.com/netacgi/nph-brs.exe?d=..;/search.html&r=2&f=G&Sect3=MRU

07/07/2000

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. a physician.

SKIN CONTACT: Wash contact areas with soap and water.

INHALATION: Not expected to be a problem.

INGESTION: Not expected to be a problem. However, if greater than 1/2 liter (pint) ingested, seek medical attention.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog. SPECIAL FIRE FIGHTING PROCEDURES: Water or foam may cause frothing. Use water to keep fire exposed containers cool. Water spray may be used to flush spills away from exposure. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. SPECIAL PROTECTIVE EQUIPMENT: For fires in enclosed areas, fire fighters must use self-contained breathing apparatus. UNUSUAL FIRE AND EXPLOSION HAZARDS: None. Flash Point C(F): > 201(400) (ASTM D-92). Flammable limits - LEI: NA, UEL: NA. NFPA HAZARD ID: Health: O, Flammablility: 1, Reactivity: O MAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Elemental oxides.

6. ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES: Report spills as required to appropriate authorities. U. S. Coast Guard regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks. Report spill to Coast Guard toll free number (800) 424-8902. In case of accident or road spill notify CHEMTREC (800) 424-9300. PROCEDURES IF MATERIAL IS RELEASED OR SPILLED: Adsorb on fire retardant treated sawdust, diatomaceous earth, etc. Showel up and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal. ENVIRONMENTAL PRECAUTIONS: Prevent spills from entering storm sewers or drains and contact with soil.

7. HANDLING AND STORAGE

HANDLING: No special precautions are necessary beyond normal good hygiene practices. See Section 8, for additional personal protection advice when handling this product. STORAGE: Do not store in open or unlabelled containers. Store away from strong oxidizing agents or combustible material.

8. Exposure controls/personal protection

VENTILATION: No special requirements under ordinary conditions of use and with adequate ventilation.

RESPIRATORY PROTECTION: No special requirements under ordinary conditions of use and with adequate ventilation.

EYE PROTECTION: Normal industrial eye protection practices should be employed.

SKIN PROTECTION: No special equipment required. However, good

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personal hygiens practices should always be followed. EXPOSURE LIMITS: This product does not contain any components which have recognized exposure limits. However, a exposure limit of 5.00 mg/m3 is suggested for oil mist.

9. PHYSICAL AND CHEMICAL PROPERT(ES

Typical physical properties are given below. Consult Product Data Sheet for specific details. APPEARANCE: Liquid COLOR: Amber ODOR: Mild ODOR THRESHOLD-ppm: NE AN : Ha BOILING POINT C(F): > 316(600) MELTING POINT C(F): MA FLASH POINT C(F): > 204 (400) (ASTM D-92) FLAMMABILITY: NE AUTO FLAMMABILITY: NE EXPLOSIVE PROPERTIES: NA OXIDIZING PROPERTIES: NA VAPOR PRESSURE-mmHg 20 C: < 0.1 VAPOR DENSITY: > 2.0 EVAPORATION RATE: NE RELATIVE DENSITY, 15/4 C: 0.887 SOLUBILITY IN WATER: Negligible

POUR POINT C(F): -23(-10)
FREEZING POINT C(F): NE
VOLATILE ORGANIC COMPOUND: NA
NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES
FOR FURTHER TECHNICAL INFORMATION, CONTACT YOUR MARKETING REPRESENTATIVE

10. STABILITY AND REACTIVITY

PARTITION COEFFICIENT: > 3.5 VISCOSITY AT 40 C, CSt: 68 VISCOSITY AT 100 C, CSt: 9

STABILITY (THERMAL, LIGHT, ETC.): Stable.
COMDITIONS: TO AVOID: Extreme heat.
INCOMPATIBILITY (MATERIALS TO AVOID): Strong exidizers.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Elemental exides.
HAZARDOUS POLYMERIZATION: Will not seems.

11, TOXICOLOGICAL DATA

ORAL TOXICITY (RATS): Practically non-toxic (LD50: greater than 2000.

mg/kg). --Based on testing of similar products and/or the

components.

DERMAL TOXICITY (RABBITS): Practically non-toxic (LD50: greater than
2000 mg/kg). --Based on testing of similar products and/or the

components.

INHALATION TOXICITY (RATS): Practically non-toxic (LC50: greater '
than 5 mg/l). --Based on testing of similar products and/or the

components.

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products and/or the components.

Skin irritation (RABBITS): Practically non-irritating. (Primary Irritation Index: greater than 0.5 but less than 3). ---Based on testing of similar products and/or the components.

OTHER ACUTE TOXICITY DATA: The acute toxicological results summarized above are based on testing of representative Mobil products. Representative Mobil formulations have shown no acute effects, administered via the inhalation route, when tested at maximum attainable oil mist or vapor concentrations.

Severely solvent refined and severely hydrotreated mineral base oils have been tasted at Mobil Environmental and Health Sciences Laboratory by dermal application to rats 5 days/week for 90 days at doses significantly higher than those expected during normal industrial exposure. Extensive evaluations including microscopic examination of internal organs and clinical chemistry of body fluids, showed no adverse effects.

The base oils in this product are severely solvent refined and/or severely hydrotreated. Chronic mouse skin painting studies of severely treated oils showed no evidence of carcinogenic effects. These results are confirmed on a continuing basis using various screening methods such as the Mobil Modified Ames Test and IP-346.

Representative Mobil formulations have not caused skin sensitization . in guinea pigs.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS: This product is expected to be inherently biodegradable. There is no evidence to suggest bioaccumulation will occur.

Acute LC/EC50: Juvenile Rainbow Trout: Practically non-toxic ——Based on testing of similar products.

Accidental spillage may lead to penetration in the soil and groundwater. However, there is no evidence that this would cause adverse ecological effects.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration. Such burning may be limited pursuant to the Resource Conservation and Recovery Act. In addition, the product can be disposad of at an appropriate government waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

RCRA INFORMATION: The unused product, in our opinion, is not specifically listed by the EPA asia hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which characteristics of ignitability, corrosivity, or reactivity and characteristics of ignitability, corrosivity, or reactivity and Characteristic Leaching Procedure (TCLF). However, used product may be regulated.

14. TRANSPORT INFORMATION

USA DOT: NOT REGULATED BY USA DOT. RID/ADR: NOT REGULATED BY RID/ADR.

IMO: NOT REGULATED BY IMO. IATA: NOT REGULATED BY IATA

15. REGULATORY INFORMATION

Governmental Inventory Status: All components comply with TSCA, EINECS/ELINCS, AICS, and DSL. EU Labeling: EU labeling not required. U.S. Superfund Amendments and Reauthorization Act (SARA) Title III: This product contains no "EXTREMELY HAZARDOUS SUBSTANCES". SARA (311/312) REPORTABLE HAZARD CATEGORIES: None. This product contains no chemicals reportable under SARA (313) toxic release program; THIS PRODUCT HAS BEEN AUTHORIZED BY OSDA FOR USE UNDER THE FOLLOWING CATEGORY: H2 - Lubricants With No Food Contact The following product ingredients are cited on the lists below: CHEMICAL NAME CAS NUMBER LIST CITATIONS

*** NO REPORTABLE INGREDIENTS ***

1=ACGIH ALL 6=IARC .1 11=TSCA 4 16=CA P65 CARC 21=LA RTK 2=ACGIH A1 7=IARC 2A 12=TSCA 5a2 17=CA P65 REPRO 22=MI 293 3=ACGIH A2 8=IARC 2B 13=TSCA 5e 18=CA RTK 23=MN RTK 4=NTP CARC 9=OSHA CARC 14=TSCI. 6 19=FL RTK 24=NJ RTK 25=PA RTK 25=PA RTK 2=ACGIH A1 7=IARC ZA 3=ACGIH A2 8=IARC 2B 13=TSCA 5e 18=CA RTA 4=NTP CARC 9=OSHA CARC 14=TSC/. 6 19=FL RTK 24=NJ 5=AND 509 10=OSHA Z 15=TSCA 12b 20=IL RTK 25=PA 26=RI RTK

Code kay: CARC=Carcinogen: SUS=Suspected Carcinogen; REPRO-Reproductive

16. OTHER INFORMATION

USE: INDUSTRIAL GEAR-OIL

NOTE: MOBIL PRODUCTS ARE NOT FORMULATED TO CONTAIN PCBS.

Please call the Customer Response Center on 800-662-4525 for formulation *****

For Internal Use Only: MHC: 1* 1* 0* 0* 1*, MPPEC: A, TRN: 610857-00, GLIS: 400248, CMCS97: 970633, REQ: US ~ MARKETING, SAFE USE: L

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07/07/2000

Page 6 of 6

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MATERIAL SAFETY DATA SHEE

For Printing Inks and Related Materials



REVISION DATE 2000/07/07

DISTRIBUTORS OF C	Grophic Arts Supplies and Equipment	HAZARDOUS	MATERIALS IDENTIFICATION	RATING: H	F1 R) P/E
1.0	SECTI		CT IDENTIFICATION			
PRODUCT CLASS: Pri	nting Ink, Oxidiz	ing Yellow		MANUFA	CTURER'S CODE:	
				86	5000-X	
	Ş	ECTION II M	ANUFACTURER			
	STRE	RER'S NAME: ET ADDRESS: FE, ZIP CODE: NE NUMBER:	MILLER COOPER COMPANY 1601 PROSPECT AVENUE KANSAS CITY, MO 64127 (816) 463-5020	•	•	
	SECTIO	ON III HAZAR	DOUS INGREDIENTS			
	INGREDIENT		CAS #	OSHA PEL	ACGI# TIV	(OPTIC
Hydrotreate Vegetable C C.I. Pigmen		2	64742-47 N/A 6358-85-6	N/A	ოფ∕ო3 (8 g∕ო3 as ძ∪	
40 CFR 710	ents in this product	elephone	(800) 289-6246	_	:	
· · · · · · · · · · · · · · · · · · ·	1		HYSICAL DATA			
BOILING RANGE	VAPOR DENSITY VS AIR	LIQUID	DENSITY VS WATER	PERCENT	VOLATILE BY WEIG	HT
450 °F	HEAVIER LIGHT		AVIER XX LIGHTER		~10	
APPEARANCE Yellow Paste	Oleoresinous		DRATION RATE VS BUTYL ACE BLOWER FASTER	TATE		
			EXPLOSION DATA			
FLAMABILITY CLASSIFICA OSHA: III-B	MOIT	FLASH PO 265		LEL		
DOT. Not Regul	ated	METHOD		Not I	Explosive	
EXTINGUISHING METHOD XX FOAM A	LCOHOL FOAM XX CO2	XX DAY CHE	MICAL XX	WATER FOG	OTHE	A
 Dense sm Firefigh 	containers from he oke may be general ters should be equ pparatus and turn	ted when uiped wit	burning	•	מב	
Keep contai due to extr			<u>-</u>			
	_	ION VI HEAL	TH HAZARD DATA			
	JRE d contact may caus		XX skin Lrration		INGESTION	
3. Excessiv	act may cause irri e inhalation of va pneumonia or cent P? No IARC MONOGRAP	apors or tral nerv	miste may caue ous system dep osha RegulaTED? No	se local pression	•	

A moderately cool, well ventilated area is adequate Labels should be visible

SECTION XI SARA TITLE III, SECTION 313, SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHTIO-KNOW ACT OF 1986 AND OF 40 CFR 372:

CHEMICAL NAME

CAS NO.

% BY WEIGHT

Cobalt Compounds Mangenese Compounds

7440-48-4

2.0

7439-96-5

2.0

NOTE: THIS INFORMATION MUST BE INCLUDED IN ALL MATERIAL SAFETY DATA SHEETS THAT ARE COPIED AND DISTRIBUTED FOR THIS PRODUCT.

PANTONE INC.'S CHECK STANDARD TRADEMARK FOR COLOR REPRODUCTION AND COLOR REPRODUCTION MATERIALS.

JUL.11.2000 10:38AM ROSSE LITHOGRAPHING

MATERIAL SAFETY DATA SHEI For Printing Inks and Related Materials

Distributors of Graphic Arts Supplies and Equipment	ourbetuk		R	EVISION DAT	2000/	07/07
	HAZARDOUS	S MATERIALS (DENTIFICATIO	ON BATIMO.	н1	e I p	<u>a</u>
SECTI		CT IDENTIFICATION	ON HAITING;	HE-1	= 1 R	PYE
PRODUCT CLASS: Printing Ink. Oxidias	D.C.	OF IDENTIFICATION				
PRODUCT NAME: M/C-T X/S PANTONE(R)	Warm Re	ď	М	ANUFACTUR	ER'S CODE:	
		u		0500		
SE	CTION II M	ANUFACTURER		8600	1-X	
MANUFACTUR			· · · · · · · · · · · · · · · · · · ·			
	er's name: Taddress:	MILLER COOPER COMPA				
	, ZIP CODE:	1601 PROSPECT AVENUE KANSAS CITY, MO 64127				
	E NUMBER:	(816) 483-5020				
SECTION	V III HAZARI	DOUS INGREDIENTS				
INGREDIENT				00114		
MARDIENI		CAS#		OSHA PEL	ACGI # TIV	(OPTION
Hydrotreated Light Distillate		****	_			
/ vegerable Oils		64742-47 N/A		100 mg/	8) Em`	Hour)
C.I. Pigment 53:1		5160-02-	N/		_	
		2100-02-	, T T 2	ng/m3	as du	st
All ingredients in this need	·					
All ingredients in this product 40 CFR 710	o ere o	n the TSCA In	ventory	List		
Emergency Response Tel	ephone	(800) 289-624	C T	c 0.5		
SEC	TION IV PH	VSICAL DATA	O EXT.	500		
BOILING RANGE VAPOR DENSITY VS AIR		ENSITY VS WATER				
450 °F X HEAVIER UGHTER	- I		PERC	SENT VOLATI	LE BY WEIGH	IT
APPEARANCE ODOR		VIER XX LIGHTER		~1	Ø	
Red Paste Oleoresinous	Su Su	ATION RATE VS BUTYL ACE		-		
SECTION		XPLOSION DATA				
FLAMABILITY CLASSIFICATION OSHA: III-B	FLASH POIN	IT	LE.L.	<u> </u>		
Not Regulated	265					
	WETHODCO	QC .	No.	t Explo	osive	
EXTINGUISHING METHOD	····					
XX FOAM ALCOHOL FOAM XX CO2 X	DRY CHEMI	CAL VV	WATER FOG		<u> </u>	
UNUSUAL FIRE AND EXPLOSION HAZARDS:		na.	MAIER FOG		LLL OTHER	
1. Teoleto contados						
1. Isolate containers from heat 2. Dense smoke may be generated 3. Firefightons should be seen as a second of the	end ot	her sources o	f ignit	idon		
3. Firefighters should be equi-	y wueu b	urning				
	. dea. Granti	sell-contain	ed			
SPECIAL FIREFIGHTING PROCEDURES:	3448					
Keen gontoines						
Keep container cool to prevent due to extreme heat.	pressur	e build up				
	V/ 115					
DOMA DA		HAZARD DATA				
PRIMARY ROUTE(S) OF ENTRY: EFFECTS OF OVEREXPOSURE: INHALATIC	DN	XX SKIN		INC	ESTION	
1. Prolonged postant				1 11463\$	es I IUN	
1. Prolonged contact may cause 2. Eye contact may cause irrita	skin ir:	ration				
, avcsscive inversion of vers		1 m.h	_			
		rete may cause	local			
CARCINOGENICITY: N.T.P? No IARC MONOGRAPHS?	No C	SHA REGULATED? No	ression			

EMERGENCY FIRST AID PROCEDURES:

1. SKIN CONTACT:

Wash affected area with scap and water

2. EYE CONTACT:

- 1. Flush eyes with copious amounts of water for at least fifteen minutes
- 2. Consult physician if irritation developes

3. INGESTION:

DO NOT INDUCE VOMITING! Dilute with 1-2 glasses of water Consult a physician

SECTI	ON	VII	REA	CTP	VII	y D	ATA

PROJUCT STABILITY

LXX STABLE

UNSTABLE HAZARDOUS POLYMERIZATION

MAY OCCUR WWILL NOT OCC

conditions to Avoid: Strong Oxidizers

SECTION VIII SPILL OR LEAK PROCEDURES

PROCEDURES WHEN MATERIAL IS SPILLED OR RELEASED:

- 1. Remove all sources of ignition
- 2. Wipe up or shovel material into an approved container
- 3. Wash spill area with soap and water

WASTE DISPOSAL METHODS:

Dispose of in accordance with local, state and federal regulations

SECTION IX PERSONAL PROTECTION INFORMATION

Normal fresh air is usually sufficient . In confined areas provide PROTECTIVE GLOVES: Recommended

RESPIRATORY EQUIPMENT Not needed if good ventilation is maintained Splash goggles are recommended during wash-up OTHER EQUIPMENT None

SECTION X SPECIAL PRECAUTIONS

HANDLING AND STORAGE:

A moderately cool, well ventilated area is adequate Labels should be visible

SECTION XI SARA TITLE III, SECTION 313, SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHTIO-KNOW ACT OF 1986 AND OF 40 CFR 372;

CHEMICAL NAME % BY WEIGHT CAS NO. Cobalt Compounds 7440-48-4 Manganese Compounds 2.0 7439-96-5 Barium Compound 2.0 7440-39-3 20.0

NOTE: THIS INFORMATION MUST BE INCLUDED IN ALL MATERIAL SAFETY DATA SHEETS THAT ARE COPIED AND DISTRIBUTED FOR THIS PRODUCT.

[&]quot;PANTONE INC'S CHECK STANDARD TRADEMARK FOR COLOR REPRODUCTION AND COLOR REPRODUCTION MATERIALS.

JUL.11.2000 10:38AM ROSSE LITHOGRAPHING ROSSE LITHOGRAPHING An Inland Industries Company

MATERIAL SAFETY DATA SHE! For Printing inks and Related Material:

REVISION DATE 2000/07/07

Distributors of Graphic Arts Supplies and Equipment	-toth-tilk			
	HAZARDOL	JS MATERIALS IDENTIFICATIO	N RATING: LI	F1 80 P/
SECTION	ON LPRODU	UCY IDENTIFICATION		F H P P
PRODUCT CLASS: Printing Ink, Oxidizi	ከ		MANUFAC	TURER'S CODE:
PRODUCT NAME: M/C-T X/S PANTONE(R)	Rubine	Red		
SE	CTION II M	MANUFACTURER	860	002-X
CITY, STATE	TADDRESS: E, ZIP CODE:	MILLER COOPER COMPAN 1601 PROSPECT AVENUE KANSAS CITY, MO 64127	Y	
	E NUMBER:	(816) 483-5020		
SECTION	I III HAZAF	RDOUS INGREDIENTS		
INGREDIENT		CAS#	OSHA PEL	ACGI# % TIV (OPT)O
Hydrotreated Light Distillate Vegetable Oils		64742-47 N/A	-8 2400 m N/A	g/m3 (8 Hour
C.I. Pigment 57:1		5281-04-9		m3 as dust
All ingredients in this product 40 CFR 710 Emergency Response Tel	ephone	(800) 289-6246		t
OILING RANGE VAPOR DENSITY VS AIR		HYSICAL DATA		
480		DENSITY VS WATER	PERCENT VO	ATILE BY WEIGHT
450 °F X HEAVIER LIGHTER		AVIER XXX LIGHTER		~10
Red Paste Oleoresinous	EVAPO S	PRATION RATE VS BUTYL ACE	TATE	
SECTION	1	EXPLOSION DATA		
LAMABILITY CLASSIFICATION SHA: III-B	FLASH POI	INT	LEL	,
or Not Regulated	265 METHODC			
TINGUISHING METHOD	METHOD		Not Exp	losive
	DRY CHEM	#044 - C		
		NICAL XX	WATER FOG	CTHER
HUSUAL FIRE AND EXPLOSION HAZARDS:				
1. Isolate containers from heat 2. Dense smoke may be generated				
-, , ++ e++Autrers spould be evil-	200 march 1	ourning h self-contoire		
breathing apparatus and turnout ECIAL FIREFIGHTING PROCEDURES;	gear	. sert-contains	€α	
Keep container cool to prevent				
due to extreme heat.	breegui	re build up		
SECTION	VI HEALTI	H HAZARD DATA		
IMARY ROUTE(S) OF ENTRY: INHALATION INHALATI	ON	жж экін		NGESTION
1. Prolonged contact may cause 2. Eye contact may cause irrita	skin ir	ration		
W. C.		. d		
irritation, pneumonia or centra RCINOGENICITY: N.T.P? No IARC MONOGRAPHS?	ra or m l nervo No	nists may cause Dus system depr OSHA REGULATED?	local ession	
		No No		_

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHTIO-KNOW ACT OF 1986 AND OF 40 CFR 372:

CHEMICAL NAME

CAS NO.

% BY WEIGHT

Cobalt Compounds Manganese Compounds

7440-48-4

2.0

7439~96-5

2.0

NOTE: THIS INFORMATION MUST BE INCLUDED IN ALL MATERIAL SAFETY DATA SHEETS THAT ARE COPIED AND DISTRIBUTED FOR THIS PRODUCT.

"PANTONE INC.'S CHECK STANDARD TRADEMARK FOR COLOR REPRODUCTION AND COLOR REPRODUCTION MATERIALS.



MATERIAL SAFETY DATA SHEE For Printing inks and Related Meterials

REVISION DATE 2000/07/07

Distributors of Graphic Arts Supplies and Equipment HAZARDOUS MATERIALS IDENTIFICATION RATING: PEL SECTION I PRODUCT IDENTIFICATION PRODUCT CLASS: Printing Ink, Oxidizing PRODUCTNAME: M/C-T X/S PANTONE(R) Rhoadamine Red MANUFACTURER'S CODE: X~E0038 SECTION II MANUFACTURER MANUFACTURER'S NAME: MILLER COOPER COMPANY STREET ADDRESS: 1601 PROSPECT AVENUE CITY, STATE, ZIP CODE: KANSAS CITY, MO 64127 TELEPHONE NUMBER: (816) 483-5020 SECTION III HAZARDOUS INGREDIENTS . INGREDIENT CAS# Hydrotreated Light Distillate 64742-47-8 2400 mg/m3 (8 Hour) Vegetable Oils N/A N/A C.I. Pigment Red 81 68929-14-6 15 mg/m3 as dust All ingredients in this product are on the TSCA Inventory List 40 CFR 710 Emergency Response Telephone (800) 289-6246 Ext. 600 SECTION IV PHYSICAL DATA BOILING RANGE VAPOR DENSITY VS AIR LIQUID DENSITY VS WATER PERCENT VOLATILE BY WEIGHT Y HEAVIER 450 LIGHTER HEAVIER XX LIGHTER ~10 APPEARANCE ODOR EVAPORATION HATE VS BUTYL ACETATE Red Paste Oleoresinous SLOWER FASTER SECTION V FIRE & EXPLOSION DATA: FLAMABILITY CLASSIFICATION FLASH POINT LEL OSHA: III-B 265 % DOT. Not Regulated METHODCOC Not Explosive EXTINGUISHING METHOD MAOR XX ALCOHOL FOAM CO XX XX DRY CHEMICAL WATER FOG J OTHER UNUSUAL FIRE AND EXPLOSION HAZARDS: 1. Isolate containers from heat and other sources of ignition 2. Dense smoke may be generated when burning 3. Firefighters should be equiped with self-contained breathing apparatus and turnout gear SPECIAL FIREFIGHTING PROCEDURES: Keep container cool to prevent pressure build up due to extreme heat. SECTION VI HEALTH HAZARD DATA PRIMARY ROUTE(S) OF ENTRY: __ INHALATION XX SKIN INGESTION EFFECTS OF OVEREXPOSURE: 1. Prolonged contact may cause skin irration 2. Eye contact may cause irritation 3. Excessive inhalation of vapors or mists may cause local irritation, pneumonia or central nervous system depression CARCINOGENICITY: NIP? No IARC MONOGRAPHS? No OSHA REGULATED? No

Section vi health hazard data — contii

EMERGENCY FIRST AID PROCEDURES:

1. SKIN CONTACT:

Wash affected area with soap and water

2. EYE CONTACT:

- 1. Flush eyes with copious amounts of water for at least fifteen minutes
- 2. Consult physician if irritation developes

8. INGESTION:

DO NOT INDUCE VOMITING! Dilute with 1-2 glasses of water Consult a physician

		SECTION VII REACTIVITY DATA	
PRODUCT STABILITY	XX STABLE		
CONDITIONS TO AVOID: 5		UNSTABLE HAZARDOUS POLYMERIZATION	MAY OCCUR IXX WILL NOT OC

SECTION VIII SPILL OR LEAK PROCEDURES

PROCEDURES WHEN MATERIAL IS SPILLED OR RELEASED:

- 1. Remove all sources of ignition
- 2. Wipe up or shovel material into an approved container
- 3. Wash spill area with soap and water

WASTE DISPOSAL METHODS:

Dispose of in accordance with local, state and federal regulations

SECTION IX PERSONAL PROTECTION INFORMATION

VENTILATION: Normal fresh air is usually sufficient . In confined areas provide one cubic foot per minute per square foot of area. PROTECTIVE GLOVES: Recommended

RESPIRATORY EQUIPMENT Not needed if good ventilation is maintained EYEPHOTECTION: Splash goggles are recommended during wash-up OTHER EQUIPMENT: None

SECTION X SPECIAL PRECAUTIONS

HANDLING AND STORAGE:

A moderately cool, well ventilated area is adequate Labels should be visible

SECTION XI SARA TITLE III, SECTION 313, SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 319 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHTIO-KNOW ACT OF 1986 AND OF 40 CFR 372:

CHEMICAL NAME	CAS NO.	% BY WEIGHT
Cobalt Compounds	7440-48-4	2.0
Manganese Compounds	7439-96-5	2.0

NOTE; THIS INFORMATION MUST BE INCLUDED IN ALL MATERIAL SAFETY DATA SHEETS THAT ARE COPIED AND DISTRIBUTED FOR THIS PRODUCT.

^{*}PANTONE INC.'s CHECK STANDARD TRADEMARK FOR COLOR REPRODUCTION AND COLOR REPRODUCTION MATERIALS.

JUL.11.2000 10:39AM <u>ROSSE</u> LITHOGRAPHING

MATERIAL SAFETY DATA SHEI For Printing inks and Related Materials

SECTION I PRODUCT DETRIFICATION SECTION I PRODUCT DETRIFICATION MANUFACTURERS CODE MANUFACTURERS NAME STREET ADDRESS: 100 PROSPECT AVENUE OTH, SITTE, ADDRESS: 100 PROSPECT AVENUE TOWN OTHER STATE MANUFACTURERS NAME MILLER COOPER COMPANY SECTION III HAZARDOUS INGREDIENTS INGREDIENT OAS PEAL ADDRESS SECTION III HAZARDOUS INGREDIENTS INGREDIENT OAS PEAL ADDRESS OSA PAL ADDRESS	Distributors of Graphic Arts Supplies and Equipm	ине Сопрану		REVISION DA	TE 2000/07/0
PRODUCT CLASS: Printing Ink, Dxidizing PRODUCT CLASS: Printing Ink, Dxidizing PRODUCT NAME M/C-T X/S PANTONER? Purple SECTION II MANUFACTURER			JS MATERIALS IDENTIFICATION	RATING: LI	<u>.[]</u> [6]
PRODUCTOLES Printing Tok, Oxidizing MANUFACTURERS CODE PRODUCT NAME M/C-T X/S PANTONE(R) Purple SECTION IN PHYSICAL DATA ACRI PREPARANCE Hydrotreated Light Distillate C.I. Pigment Violet 3 All ingredients in this product are on the TSCA Inventory List 40 CFR 710 Emergency Response Telephone (600) 269-6246 Ext. 600 SECTION IN PHYSICAL DATA ASSISTED MANUFACTURERS CODE ALL ingredients in this product are on the TSCA Inventory List 40 CFR 710 Emergency Response Telephone (600) 269-6246 Ext. 600 SECTION IN PHYSICAL DATA ASSISTED MANUFACTURERS CODE PURPLE PASTE DOOR PURPLE PASTE DOOR ALL HAMSEN UNDER HAMSEN WATER PERCENT VOLATURE BY WEIGHT ASSISTED MANUFACTURE BY	SI	CTION I PRODU	JCT IDENTIFICATION	MAINIG, AL	FE AW F
MANUFACTURER MANUFACTURER MANUFACTURER MANUFACTURER STREET ADDRESS. OTT, SRITE, JP GOODE RANSAS CITY, MO 64127 TELEPHONE NUMBER: (8th 452-522) INGREDIENT INGREDIENT INGREDIENT INGREDIENT INGREDIENT CAS# CGHA ACGI* FEL TOV TOV ANA N/A N/A N/A 1325-82-2 15 mg/m3 as dus All ingredients in this product are on the TSCA Inventory List 40 CFR 710 Emergency Response Telephone (800) 289-6246 Ext. 600 SECTION IV PHYSICAL DATA LIQUID DENSITY VS ANT LIQUID DENSITY VS ANT ACGI* FEL TOV TOV THE SECTION IV PHYSICAL DATA LIQUID DENSITY VS ANTER PERCENT VOLATILE BY WEIGH ACGI ACGI* TOV THE SECTION IV PHYSICAL DATA LIQUID DENSITY VS ANTER PERCENT VOLATILE BY WEIGH ACGI TOV TEMPORATION RATE VS BOYTLACETATE ACGI AND THE SECTION IN THE SECTION THE SECTION IN THE SEC	PHODUCTCLASS: Printing Ink, Oxid	izing		MANUFACTU	IRER'S CODE:
MANUFACTURER'S NAME STREET ADDRESS TOTAL PRODECT AVENUE OTTY, STREET 2, 20 CODE TELEPHONE NUMBER: (SIGN 483-8020) SECTION III INAZARDOUS INGREDIENTS NAME		05.07.0		8600	04-X
STREET ADDRESS: OTT, SINTE, TOODE OTT, SINTE, TOODE OTT, SINTE, TOODE TELEPHONE NUMBER: (SECTION III INAZARDOUS INGREDIENTS INGREDIENT I			TANUFACTURER		
Hydrotreated Light Distillate Vegetable Oils C.I. Pigment Violet 3 All ingredients in this product are on the TSCA Inventory List All ingredients in this product are on the TSCA Inventory List All ingredients in this product are on the TSCA Inventory List All ingredients in this product are on the TSCA Inventory List All ingredients in this product are on the TSCA Inventory List All ingredients in this product are on the TSCA Inventory List All ingredients in this product are on the TSCA Inventory List All ingredients in this product are on the TSCA Inventory List Emergency Response Telephone (800) 289-6246 Ext. 600 SECTION IV PHYSICAL DAY FEMALE PRODUCT OF THE SECTION OF PRODUCT OF THE SECTION OF THE SE	S CITY,	TREET ADDRESS: STATE, ZIP CODE:	1601 PROSPECT AVENUE KANSAS CITY, MO 64127		
Hydrotreated Light Distillate Vegetable Oils Wegetable Oils R/A C.I. Pigment Violet 3 All ingredients in this product are on the TSCA Inventory List 40 CFR 710 Emergency Response Telephone (800) 289-6246 Ext. 600 SECTION IV PHYSICAL DATA BOULING RANGE WAPOR DENSITY VS AIR ULGHD DENSITY VS WATER PERCENT VOLATILE BY WEIGH ASSIMUS PRANCE PUTPLE Paste OLGOR OLGOR SECTION V FIRE & EXPLOSION DATA SECTION V FIRE & EXPLOSION DATA LAMABILITY CLASSIFICATION SHE'LL III - B OUT. Not Regulated WETHOOCOC Not Explosive XI NOT REPUBLISHED XI NOT RE	SEC	TION III HAZAF			
C. I. Pigment Violet 3 N/A 1325-82-2 15 mg/m3 as dua All ingredients in this product are on the TSCA Inventory List 40 CFR 710 Emergency Response Telephone (800) 289-6246 Ext. 600 SECTION IV PHYSICAL DATA 450 # XX HEAVIER LIQHID DENSITY VS WATER PERCENT VOLATILE BY WEIGHT 450 # XX HEAVIER LIGHTER XX LIGHTER Y10 PPERARNICE DOOR EXPORATION RATE VS BUTYL ACETATE XX ISLOWER FASTER LAMABULTY CLASSIFICATION FLUSH POINT Z65 # LEL CAT Not Regulated METHOD COC Not Explosive XXINGUISHING METHOD XX Co2 XX DRY CHEMICAL XX WATER FOG OTHER NUISUAL FIRE AND EXPLOSION HAZARDS: 1. Isolate containers from heat and other sources of ignition 2. Dense smoke may be generated when burning 3. Firefighters should be equiped with self-contained breathing apparatus and turnout gear ECAL FIREFIGHTING PROCEDURES: KEEP CONTAINER COOL to prevent pressure build up MARY ROUTE(S) OF ENTITY: INHALATION XX SKIN INGRESTION INGRESTION INHALATION XX SKIN INGRESTION INGRESTION INGRESTION INGRESTION INHALATION XX SKIN INGRESTION INGRESTION INGRESTION INHALATION XX SKIN INGRESTION INGRESTION INGRESTION INGRESTION INDRANCE INHALATION XX SKIN INGRESTION INGRESTION INGRESTION INHALATION XX SKIN INGRESTION INGRESTION INFRAID INHALATION XX SKIN INGRESTION INGRESTION INFRAID INHALATION XX SKIN INGRESTION INGRESTION INFRAID INHALATION XX SKIN INGRESTION INCREDITED INHALATION XX SKIN INGRESTION INCREDITED INHALATION XX SKIN INGRESTION INFRAID INHALATION XX SKIN INHALATION INTRINCE INHALATION INHALATION XX SKIN INHALATION INHALATION	INGREDIENT			OSHA PEL	ACGI# OPTI
Emergency Response Telephone (800) 289-6246 Ext. 600 Section IV Physical Data	Amagerapte nile	ıte	N/A	N/A	
ASO		Telephone	(800) 289-6246		
### HEAVIER LIGHTER HEAVIER METHOD HEAVIER METHOD COC Not Explosive #### WATER FOR OTHER METHOD METHOD COC Not Explosive #### WATER FOR OTHER METHOD METHOD COC Not Explosive #### WATER FOR OTHER METHOD METHOD COC Not Explosive #### WATER FOR OTHER METHOD METHOD COC Not Explosive #### WATER FOR OTHER METHOD COC Not Explosive ##### WATER FOR OTHER METHOD COC Not Explosive ##### WATER FOR OTHER METHOD COC Not Explosive ##### WATER FOR OTHER METHOD COC Not Explosive ###### WATER FOR OTHER METHOD COC Not Explosive ######## WATER FOR OTHER METHOD COC Not Explosive METHOD COC Not Explosive ###################################	OILING RANGE VAPOR DENSITY VS AIR			BEDOENEN	
Purple Paste ODOR EVAPORATION RATEVS BUTYLACETATE XX SLOWER FASTER FASTER FASTER SECTION V FIRE & EXPLOSION DATA LAMABILITY CLASSIFICATION SHA: III-B OI. Not Regulated METHODCOC Not Explosive KTINGUISHING METHOD ALCOHOL FOAM XX Co. XX DRY CHEMICAL XX WATER FOG OTHER CHUSUAL FIRE AND EXPLOSION HAZARDS: 1. Isolate containers from heat and other sources of ignition 2. Dense smoke may be generated when burning 3. Firefighters should be equiped with self-contained breathing apparatus and turnout gear ECIAL FIREFIGHTING PROCEDURES: Keep container cool to prevent pressure build up MARY ROUTE(S) OF ENTRY: INHALATION XX SKIN INGESTION MARY ROUTE(S) OF ENTRY: INHALATION XX SKIN INGESTION MARY ROUTE(S) OF ENTRY: INHALATION XX SKIN INGESTION MARY POLICE(S) OF ENTRY: INHALATION XX SKIN INGESTION MARY ROUTE(S) OF ENTRY: INHALATION XX SKIN INGESTION 1. Prolonged contact may cause of the second 1. Prolonged contact may cause 1. Prolonged contact	450 of X HEAVIER LIG	I,			
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SHA: III-B OI. Not Regulated WINGUISHING METHOD X FOAM ALCOHOL FOAM XX CO2 XX DRY CHEMICAL XX WATER FOG OTHER RUSUAL FIRE AND EXPLOSION HAZARDS: 1. Isolate containers from heat and other sources of ignition 2. Dense smoke may be generated when burning 3. Firefighters should be equiped with self-contained breathing apparatus and turnout gear ECIAL FIREFIGHTING PROCEDURES: Keep container cool to prevent pressure build up due to extreme heat. SECTION VI HEALTH HAZARD DATA MARY ROUTES) OF ENTRY: INHALATION XX SKIN INGESTION INGESTION INGESTION INGESTION	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	XX s	LOWER FASTER	•	
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TINGUISHING METHOD X FOAM	·· — —			LEL	
X FOAM ALCOHOL FOAM XX CO2 XX DRY CHEMICAL XX WATER FOG OTHER RUSUAL FIRE AND EXPLOSION HAZARDS: 1. Isolate containers from heat and other sources of ignition 2. Dense smoke may be generated when burning 3. Firefighters should be equiped with self-contained breathing apparatus and turnout gear ECIAL FIREFIGHTING PROCEDURES: Keep container cool to prevent pressure build up due to extreme heat. SECTION VI HEALTH HAZARD DATA MARY ROUTE(S) OF ENTRY: INHALATION XX SKIN INGESTION 1. Prolonged contact may cause chitations.		METHODC	oc	Not Expl	osive
NAMED AND DRY CHEMICAL XX WATER FOG OTHER RUSUAL FIRE AND EXPLOSION HAZARDS: 1. Isolate containers from heat and other sources of ignition 2. Dense smoke may be generated when burning 3. Firefighters should be equiped with self-contained breathing apparatus and turnout gear ECIAL FIREFIGHTING PROCEDURES: Keep container cool to prevent pressure build up due to extreme heat. SECTION VI HEALTH HAZARD DATA MARY ROUTE(S) OF ENTRY: INHALATION XX SKIN INGESTION 1. Prolonged contact may cause chitation.					
1. Isolate containers from heat and other sources of ignition 2. Dense smoke may be generated when burning 3. Firefighters should be equiped with self-contained breathing apparatus and turnout gear ECIAL FIREFIGHTING PROCEDURES: Keep container cool to prevent pressure build up due to extreme heat. SECTION VI HEALTH HAZARD DATA MARY ROUTE(S) OF ENTRY: INHALATION XX SKIN INGESTION 1. Prolonged contact may cause chitations.	122 CO2	DRY CHEM	M XX MADI	ATER FOG	OTHER
SECTION VI HEALTH HAZARD DATA MARY ROUTE(S) OF ENTRY: INHALATION XX SKIN INGESTION 1. Prolonged contact may cause club in terral in	 Isolate containers from h Dense smoke may be genera Firefighters should be equipmental be equipmental be and turn 	icen Avev 1	ther sources of burning h self-containe	ignition d	
MARY ROUTE(S) OF ENTRY: INHALATION XX SKIN INGESTION 1. Prolonged contact may sales alice description	or excreme tiest.		-		
FECTS OF OVEREXPOSURE: 1. Prolonged contact may cause obtained.		TION VI HEALTH	I HAZARD DATA		
3. Excessive inhalation of various	FOTS OF OVEREXPOSURE 1. Prolonged contact may cause 2. Eye contact may cause irr: 3. Excessive inhalation of war.	se skin ir	ration		GESTION
irritation, pneumonia or central nervous system depression RCINOGENICITY: N.I.P? No IARC MONOGRAPHS? No OSHA REGULATED? No		rior HALAD	us system denre	esion	

SECTION X SPECIAL PRECAUTIONS

HANDLING AND STORAGE:

A moderately cool, well ventilated area is adequate Labels should be visible

SECTION XI SARA TITLE III, SECTION 313, SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHTIO-KNOW ACT OF 1986 AND OF 40 CFR 372:

CHEMICAL NAME % BY WEIGHT CAS NO. Cobalt Compounds 7440-48-4 Manganese Compounds 2.0 7439-96-5 2.0

NOTE: THIS INFORMATION MUST BE INCLUDED IN ALL MATERIAL SAFETY DATA SHEETS THAT ARE COPIED AND DISTRIBUTED FOR THIS PRODUCT.

"PANTONE INC.'S CHECK STANDARD TRADEMARK FOR COLOR REPRODUCTION AND COLOR REPRODUCTION MATERIALS.

JUL.11.2000 10:40AM ROSSE LITHOGRAPHING

For Printing inks and Related Materials

	rs of Graphic Arts Supplies	An Inland Industries Company		FIEVIŞ	ION DATE 2000	107/07
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			OUCT IDENTIFICATION		F R	@ _{P/}
PRODUCT CLASS:	Printing Ink,	Oxidizina		· · · · · · · · · · · · · · · · · · ·		
PRODUCT NAME:]	M/C-T X/S PAN	TONE(R) Reflex	: Blue	MANI	UFACTURER'S CODE:	
					86005-x	
		SECTION II	MANUFACTURER			
		MANUFACTURER'S NAME:		PANY		•
	•	STREET ADDRESS:	The state of the s			
		CITY, STATE, ZIP CODE: TELEPHONE NUMBER:		7		
			RDOUS INGREDIENTS			
			WDOOS INGKEDIENTS			
	INGREDIEN	T	CAS f		HA ACGI#	(OPTIO
Hydrotrea	ted Light Dis	stillate	C 457.45 . 4			••••
Aederapto) Vils		64742-4 N/a	:7-8 2401 N/A	0 mg/m3 (8	Hour)
C.I. Pigm	ent Blue 61		1324-76		mg/m3 as di	
					"A' "O GB CI	15 t
		÷				
All ingre	dients in thi	s product are	on the TSCA I	nuontot		
421	mer dettch weeb	onse Telephone	(800) 289-62	46 Ext. 60	96	
OILING RANGE	VAPOR DENSITY VS A		PHYSICAL DATA			
450 °F	[DENSITY VS WATER		IT VOLATILE BY WEIG	НТ
PPEARANCE	ODOR		HEIVARI XX HEIVARI	a ·	~10	
Blue Paste	Oleoresin	ous XX	ORATION RATE VS BUTYL A			
			EXPLOSION DATA	#H		
Lamability Classifi Sha: III-B	CATION	FLASH P	OINT	LEL	- ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
or Not Regu	ulated	265 METHOD	•)		
		DORTSIM		Not	Explosive	
XTINGUISHING METHO X FOAM						
ALIFOAM . L	ALCOHOL FOAM XX	DRY CHE	XX ADDIME	WATER FOG	OTHER	4
USUAL FIRE AND EXF	LOSION HAZARDS:					•
1. Isolate	containers f	rom heat and	other sources	of downers		
					on .	
	urers sponia	be equiped with turnout gear	burning th self-contai	ned		
ECIAL FIREFIGHTING	PROCEDURES;	connont dear				
1						
due to ext	iner cool to	prevent pressi	re build up			
	reme near,					
		SECTION VI HEAL	TH HAZARD DATA			
MARY ROUTE(S) OF E	NTRY:	INHALATION	XX SKIN	ı	INGESTION	
ECTS OF OVEREXPOS	.UHE: 9d c/\^+==+ ~				—— INGESTION	
	LAGL MAV CANDO	y cause skin i P irritation				
A. EYCERRIL	VO lobelation	Df 410	mists may caus	na 1		
irritation, RCINOGENICITY: N		LEMENT DEFI	ous bystem der	orsseion am Tomst		
	NO IARCM	ONOGRAPHS? NO	OSHA REGULATED? NO			
						

SECTION VI HEALTH HAZARD DATA — CONTI

EMERGENCY FIRST AID PROCEDURES:

1. SKIN CONTACT:

Wash affected area with acap and water

2. EYE CONTACT:

- 1. Flush eyes with copious amounts of water for at least fifteen minutes
- 2. Consult physician if irritation developes

S. INGESTION:

DO NOT INDUCE VOMITING! Dilute with 1-2 glasses of water Consult a physician

		SECTION VII REACTIVITY DATA	•
PROJUCT STABILITY	XX STABLE		
CONDITIONS TO MODE	right owner	UNSTABLE HAZARDOUS POLYMERIZATION	MAY OCCUP THE UNIT OF
CONDITIONS TO AVOID: St	rong Oxid	izare	MAY OCCUR LY WILL NOT O

SECTION VIII SPILL OR LEAK PROCEDURES

PROCEDURES WHEN MATERIAL IS SPILLED OR RELEASED:

- 1. Remove all sources of ignition
- 2. Wipe up or shovel material into an approved container
- 3. Wash spill area with soap and water

WASTE DISPOSAL METHODS:

Dispose of in accordance with local, state and federal regulations

SECTION IX PERSONAL PROTECTION INFORMATION

VENTILATION: Normal fresh air is usually sufficient . In confined areas provide one cubic foot per minute per square foot of area. PROTECTIVE GLOVES: Recommended RESPIRATORY EQUIPMENT Not needed if good ventilation is maintained

EYEPROTECTION: Splash goggles are recommended during wash-up

SECTION X SPECIAL PRECAUTIONS

HANDLING AND STORAGE:

A moderately cool, well ventilated area is adequate Labels should be visible

SECTION XI SARA TITLE III, SECTION 313, SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHTID-KNOW ACT OF 1986 AND OF 40 CFR 372:

CHEMICAL NAME	212.12	% BY
Cobalt Compounds	CAS NO.	% BY WEIGHT
Manganese Compounds	7440-48-4 7439-96 - 5	2.0 2.0

NOTE: THIS INFORMATION MUST BE INCLUDED IN ALL MATERIAL SAFETY DATA SHEETS THAT ARE COPIED AND DISTRIBUTED FOR THIS PRODUCT.

PANTONE INC'S CHECK STANDARD THADEMARK FOR COLOR REPRODUCTION AND COLOR REPRODUCTION MATERIALS.

MATERIAL SAFETY DATA SHE For Printing Inks and Related Material

Distributors of Graphic Arts	Supplies and Fourthment	peny			mario(o)(pa)	E LUCO,	w,,,,,,
		HAZARDOUS	MATERIALS (DENTIFIC	ATION RATI	NG: H	FI R	a
	SECTIO	NIPRODU	CT IDENTIFICATIO		(res	FL KL	<u> </u>
PRODUCT CLASS: Printing PRODUCT NAME: M/C-T X/S	Ink. Oxidiate				MANUFACTUE	IER'S CODE:	
		_			8600	6-Y	
	SEC	CTION II M	ANUFACTURER				
	Manufacture Street City, State, Telephone	address: Zip code:	MILLER COOPER COM 1601 PROSPECT AVENU KANSAS CITY, MO 6412 (816) 483-5020	JE	•		
	SECTION	III HAZARI	DOUS INGREDIENT	S			
IN	GREDIENT		CAS		osha Pël	ACGI #	% (OP110)
Hydrotreated Ligh Vegetable Oils C.I. Pigment Blue			64742-4 N/A 147-14-		2400 mg/ N/A 15 mg/m3	/m3 (ġ	Hour
OILING RANGE VAPOR DEN	Response Tele	LIQUID DI	(800) 289-62 Ysicai data Ensity vs water			ILE BY WEIGH	iT
450 % X HEAVIE	R LIGHTER	HEA			~1		
	resinqus	EVAPOR	DWER FASTI		<u> </u>		-
LAMABILITY CLASSIFICATION	SECTION		XPI OSION DATA:	ER			
SHA: III-B		FLASH POIN 265	T	LEL			
or Not Regulated		METHODCC			Not Expl	osive	
XTINGUISHING METHOD X FOAM ALCOHOL FOAM		DRY CHEMI	CAL X	WATER	FOG	OTHER	
NUSUAL FIRE AND EXPLOSION HAZARD 1. Isolate contain 2. Dense smoke may 3. Firefighters sh breathing apparatus ECIAL FIREFIGHTING PROCEDURES:	ers from heat be generated	AVEN D	her sources urning self-contai	of ig	mition		
Keep container coodue to extreme heat	<u> </u>		-				
	SECTION	// HEALTH	HAZARD DATA				
MARY ROUTE(S) OF ENTRY: FECTS OF OVEREXPOSURE:	INHALATIO		XX skin		ING	ESTION	
1. Prolonged contact 2. Eye contact may 3. Excessive inhale	tion of	ion					
3. Excessive inhals irritation, pneumon acmogenicity: NIP? No	icion of vapor is or central Nonogaapase N	WELADI	ste may ceu: 15 eystem de! 18HA REGULATED? No.	se loo preas:	cal ion		

A moderately cool, well ventilated area is adequate Labels should be visible

SECTION XI SARA TITLE III, SECTION 313, SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHTFO-KNOW ACT OF 1996 AND OF 40 CFR 372:

CHEMICAL NAME

CAS NO.

% BY WEIGHT

Cobalt Compounds Manganese Compounds

7440-48-4

2.0

7439-96-5

2.0

NOTE: THIS INFORMATION MUST BE INCLUDED IN ALL MATERIAL SAFETY DATA SHEETS THAT ARE COPIED AND DISTRIBUTED FOR THIS PRODUCT.

PANTONE INC.'S CHECK STANDARD TRADEMARK FOR COLOR REPRODUCTION AND COLOR REPRODUCTION MATERIALS.

PAGE 2 OF 2

ATTACHMENT /2 Page 35 of Lan

MATERIAL SAFETY DATA SHE For Printing Inks and Related Material

Distributors of Graphic Arts Supplies and	riumo industries Company ri Francesco		HEARION DATE SERVING A NO.
and the solution of		MATERIALS IDENTIFICATION RAT	
	SECTION L DROOM	T IDENTIFICATION	ING: HI FI A PIE
PRODUCT CLASS: Printing Ink,	Detetet	TIDENTIFICATION	
PRODUCT NAME: M/C-T X/S PANTO	ONE(B) Grass		MANUFACTURER'S CODE:
	oup (II) dieen		•
	SECTION II MA	DILLEACTUCES	85007-X
		NOTACIORER	
,	AANUFACTURER'S NAME:	MILLER COOPER COMPANY	
		1601 PROSPECT AVENUE	
	7P/ Philosip	KANSAS CITY, MO 64127	
		(876) 483-5020	
	SECTION III HAZARD	OUS INGREDIENTS	
INGREDIENT		010 =	DSHA ACGI# %
IX-wall-rate to a second		CAS #	BET LIA (OLION
Hydrotreated Light Dist Vegetable Oils	illate	64742-47-8	2400
C.I. Pigment Green 7		N/A	2400 mg/m3 (8 Hour) N/A
over request orees y		1328-53-6	15 mg/m3 as dust
			- mg, me as cast
		•	
·All ingredients in this 40 CFR 710	product ere or	the Tool T	
40 CFR 710	r	rue tack Invent	ory List
Emergency Respon	nse Telephone (800) 289-6246 Ex	+ 600
	SECTION IV PHY	SICAL DATA	. 600
BOILING RANGE VAPOR DENSITY VS AIR	· · · · · · · · · · · · · · · · · · ·	NS(TY VS WATER	
450 of XX HEAVIER			PERCENT VOLATILE BY WEIGHT
APPEARANCE ODOR			~10
Green Paste Oleoresinou	is XX slo	TION RATE VS BUTYL ACETATE WER FASTER	
	SECTION V FIRE & EX		
FLAMABILITY CLASSIFICATION OSHA: III-B	FLASH POINT		
DOT. Not Regulated	265 •		
men neg negatated	METHOD CO	C	Not Explosive
EXTINGUISHING METHOD			
XX FOAM ALCOHOL FOAM XX	CO₂ XX DRY CHEMIC		
	ONS SEE ON CHEMIC	AL XX WATER	FOG OTHER
UNUSUAL FIRE AND EXPLOSION HAZARDS:			
1. Isolate containers fr 2. Dense smoke may be de	om heat and oth	er sources of in	mitian
2. Dense smoke may be ge	nereted when bu	rning	
3. Firefighters should be breathing apparatus and	e equiped with	self-contained	•
SPECIAL FIREFIGHTING PROCEDURES:	turnout gear		
•			
Keep container cool to pu	Cevent nraesuma	hudlet	
due to extreme heat.	Probaute	narra nb	•
	SECTION VI HEALTH I	HAZARD DAYA	
PRIMARY ROUTE(S) OF ENTRY:	_		
EFFECTS OF OVEREXPOSURE:	_ INHALATION	XX skin	INGESTION
1. Prolonged contact may	ranes elsa e		
I W. HUCCOSTAS IDDOID4199 =	46	9+= w= = :	
		ara may cause loo	eal -
CARCINOGENICITY: N.I.P? NO IARC MON	OGRAPHS? No OS	HA REGULATED? No	LON
		1/0	

Labels should be visible

SECTION XI SARA TITLE III, SECTION 313, SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHTTO-KNOW ACT OF 1996 AND OF 40 CFR 372:

CHEMICAL NAME CAS NO. Cobalt Compounds Manganese Compounds 7440-48-4 2.0 7439-96-5 2.0

NOTE: THIS INFORMATION MUST BE INCLUDED IN ALL MATERIAL SAFETY DATA SHEETS THAT ARE COPIED AND DISTRIBUTED FOR THIS PRODUCT.

^{*}PANTONE INC'S CHECK STANDARD TRADEMARK FOR COLOR REPRODUCTION AND COLOR REPRODUCTION MATERIALS.

MATERIAL SAFETY DATA SHEE For Printing Inks and Related Materials

Distributors of Graphic Arts Supplies and Equipment	II.)W			20,007,077,07
	HAZARDOUS	MATERIALS IDENTIFICATION	RATING: H	F1 R0 P/
SECTION	I PRODU	CT IDENTIFICATION		<u> </u>
PRODUCT CLASS: Printing Ink, Oxidizing PRODUCT NAME: M/C-T X/S PANTONE(R) Tr	-		MANUFACTU	RER'S CODE:
Scot	TION II na	ANUFACTURES	8600	28-X
		ANUFACTURER		
MANUFACTURER'S STREET AS CITY, STATE, ZI TELEPHONE N	DDRESS: IP CODE:	MILLER COOPER COMPANY 1801 PROSPECT AVENUE KANSAS CITY, MO 64127 (816) 483-6020		
SECTION II	I HAZARI	DOUS INGREDIENTS		
INGREDIENT		CAS#	OSHA PEL	ACGI# %
Hydrotreated Light Distillate Vegetable Oils		64742 - 47- N/A	8 2400 mg N/A	/m3 (8 Hour)
All ingredients in this product 40 CFR 710	are o	n the TSCA Inv	entory List	
Emergency Response Tele	enode	(800) 289-6246	Put Con	
SECTION	ON IV PH	YSICAL DATA	EXC. BOO	
BOILING RANGE VAPOR DENSITY VS AIR		ENSITY VS WATER	DEDCENT VOLA	TILE BY WEIGHT
450 OF X HEAVIER LIGHTER	☐ HEA		1	
APPEARANCE ODOR Amber Paste Olegresingus	EVAPOR	ATION RATE VS BUTYL ACETA	NTE .	10
	XX SIG			
-CAMABICITY CLASSIFICATION	FLASH POIN	XPLOSION DATA		
DOLLY: TTT-R	265		LEL	
Not Regulated EXTINGUISHING METHOD	METHODCC)C	Not Expl	eviac.
FOAM ALCOHOL FOAM XX CO2 XX	DRY CHEMI	CAL XX W	ATER FOG	OTHER
INUSUAL FIRE AND EXPLOSION HAZARDS: 1. Isolate containers from heat 2. Dense smoke may be generated 3. Firefighters should be equiped breathing apparatus and turnout opening procedures:	wnen n			
Keep container cool to prevent podue to extreme heat.	ressur	e build up		
SECTION V	LHEALTH	HAZARD DATA		
RIMARY ROUTE(S) OF ENTRY: INHALATION FECTS OF OVEREXPOSURE:		XX SKIN	□ IN	GESTION
1. Prolonged contact may cause sk 2. Eye contact may cause irritati 3. Excessive inhalation of vapors irritation, pneumonia or control	ion			
irritation, pneumonia or central RCHOGENICITY: NIP? No IARC MONOGRAPHS? NO	nervol	ists may cause is system depre SHAREQUIATED? No	local esion	
		<u></u>		

JUL.11.20000010:42AM600 ROSSE LITHOGRAPHING NO.409 P.39/59 SECTION VI HEALTH HAZARD DATA — CONTIN EMERGENCY FIRST AID PROCEDURES: 1. SKIN CONTACT: Wash affected area with soap and water 2. EYE CONTACT: 1. Flush eyes with copious amounts of water for at least fifteen minutes 2. Consult physician if irritation developes 3. INGESTION: DO NOT INDUCE VOMITING! Dilute with 1-2 glasses of water Consult a physician SECTION VILREACTIVITY DATA PROJUCT STABILITY XX STABLE UNSTABLE HAZARDOUS POLYMERIZATION MAY OCCUR WILL NOT OCCU conditions to AVOID; Strong Oxidizers SECTION VIII SPILL OR LEAK PROCEDURES PROCEDURES WHEN MATERIAL IS SPILLED OR RELEASED: 1. Remove all sources of ignition 2. Wipe up or shovel material into an approved container 3. Wash spill area with soap and water WASTE DISPOSAL METHODS: Dispose of in accordance with local, state and federal regulations SECTION IX PERSONAL PROTECTION INFORMATION VENTILATION: Normal fresh air is usually sufficient . In confined areas provide one cubic foot per minute per square foot of area. PROTECTIVE GLOVES: Recommended RESPIRATORY EQUIPMENT: Not needed if good ventilation is meintained Splesh goggles are recommended during wash-up OTHER EQUIPMENT None SECTION X SPECIAL PRECAUTIONS HANDLING AND STORAGE: A moderately cool, well ventilated area is adequate Labels should be visible SECTION XI SARA TITLE III, SECTION 313, SUPPLIER NOTIFICATION THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHTIO-KNOW ACT OF 1966 AND OF 40 CFR 372:

CHEN	fical name	CAS NO.	% BY WEIGHT
Cobalt Compounds		7440-48-4	2. Ø
Manganese Compounds		7439-96-5	2. Ø

NOTE: THIS INFORMATION MUST, BE INCLUDED IN ALL MATERIAL SAFETY DATA SHEETS THAT ARE COPIED AND DISTRIBUTED FOR THIS PRODUCT.

PANTONE INC.'S CHECK STANDARD TRADEMARK FOR COLOR REPRODUCTION AND COLOR REPRODUCTION MATERIALS.

Date 7-11-00





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Arma,	
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Our Goal Is Delighted Customers!

MATERIAL SAFETY DATA SHEE For Printing Inks and Related Materials

REVISION DATE 2000/07/07

Manufacturers of Printing Inks

Distributors of Graphic Arts Supplies and Equipment			
\	HAZARDÓUS	MATERIALS IDENTIFICATION RATIN	IG: HI FI RØ P/E
SECTION	I PRODUC	CT IDENTIFICATION	
PRODUCT CLASS: Printing Ink, Oxidizing PRODUCT NAME: M/C-T X/S PANTONE(R) M	7		MANUFACTURER'S CODE:
			8 6009-X
SEC	TION II MA	ANUFACTURER	
MANUFACTURER' STREET A CITY, STATE, Z TELEPHONE N	DDRESS: IP CODE:	MILLER COOPER COMPANY 1601 PROSPECT AVENUE KANSAS CITY, MO 64127 (816) 488-5020	•
SECTION I	II HAZARI	DOUS INGREDIENTS	
INGREDIENT		CAS#	OSHA ACGI# % PEL TIV (OPTIONA
Hydrotreated Light Distillate Vegetable Oils C.I. Pigment Black 7		64742-47-8 N/A 1333-86-4	2400 mg/m3 (& Hour) N/A 3.5 - 9 mg/m3 as dus
All ingredients in this product 40 CFR 710 Emergency Response Tele			
		YSICAL DATA	
BOILING RANGE VAPOR DENSITY VS AIR	LIQUID D	ENSITY VS WATER	PERCENT VOLATILE BY WEIGHT
450 of X HEAVIER UGHTER	HEA	WIER XX LIGHTER	~10
APPEARANCE ODOR	EVAPOR	RATION HATE VS BUTYL ACETATE	10
Black Paste Oleoresinous	s XX		
FLAMABILITY CLASSIFICATION SECTION	V FIRE &	EXPLOSION DATA .	
OSHA: III~B	265		•
DOT. Not Regulated	METHODC	OC	Not Explosive
	DRY CHEM	IICAL XX WATER	FOG OTHER
UNUSUAL FIRE AND EXPLOSION HAZARDS: 1. Isolate containers from heat 2. Dense smoke may be generated 3. Firefighters should be equipabreathing apparatus and turnout SPECIAL FIREFIGHTING PROCEDURES:	when l ed with	burning	gnition
Keep container cool to prevent product to extreme heat.			
SECTION	VI HEALTH	HAZARD DATA	
PRIMARY ROUTE(5) OF ENTRY: INHALATIO		хх экім	INGESTION
 Prolonged contact may cause a Eye contact may cause irritat Excessive inhalation of vapor irritation, pneumonia or central cancinogenicity: NIP? No IARC MONOGRAPHS? N 	ion s or m nervo	nists may cauco le	cal

PAGE 1 OF 2

EMERGENCY FIRST AID PROCEDURES:

1. SKIN CONTACT:

Wash affected area with scap and water

2. EYE CONTACT:

- 1. Flush eyes with copious amounts of water for at least fifteen minutes
- 2. Consult physician if irritation developes

3. INGESTION:

DO NOT INDUCE VOMITING! Dilute with 1-2 glasses of water Consult a physician

SECTION VII REACTIVITY DATA

PROJUCT STABILITY

STABLE

UNSTABLE HAZARDOUS POLYMERIZATION

MAY OCCUR LESS WILL NOT OCCU

CONDITIONS TO AVOID: Strong Oxidizers

SECTION VIII SPILL OR LEAK PROCEDURES

PROCEDURES WHEN MATERIAL IS SPILLED OR RELEASED:

- 1. Remove all sources of ignition
- 2. Wipe up or shovel material into an approved container
- 3. Wash spill area with scap and water

WASTE DISPOSAL METHODS:

Dispose of in accordance with local, state and federal regulations

SECTION IX PERSONAL PROTECTION INFORMATION

VENTILATION: Normal fresh air is usually sufficient . In confined areas provide one cubic foot per minute per square foot of area. PROTECTIVE GLOVES: Recommended

RESPIRATORY EQUIPMENT: Not needed if good ventilation is maintained EYE PROTECTION: Splash goggles are recommended during wash-up

OTHER EQUIPMENT: None

SECTION X SPECIAL PRECAUTIONS

HANDLING AND STORAGE: .

A moderately cool, well ventilated area is adequate Labels should be visible

SECTION XI SARA TITLE III, SECTION 313, SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 913 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHTFO-KNOW ACT OF 1986 AND OF 40 CFR 372:

CHEMICAL NAME

CAS NO.

% BY WEIGHT

Cobalt Compounds Manganese Compounds

7440-48-4

2.0

7439-96-5

2.0

NOTE: THIS INFORMATION MUST BE INCLUDED IN ALL MATERIAL SAFETY DATA SHEETS THAT ARE COPIED AND DISTRIBUTED FOR THIS PRODUCT.

*PANTONE INC.'S CHECK STANDARD TRADEMARK FOR COLOR REPRODUCTION AND COLOR REPRODUCTION MATERIALS.

PAGE 2 OF 2



MATERIAL SAFETT DATA SHEE For Printing Inks and Related Materials

SECTION II MANUFACTURER MANUFACTURERS NAME: MILLER COOPER COMPANY STREET ADDRESS: 1501 PROSPECT AVENUE KANEAS CITY, MO 64127 TELEPHONE NUMBER: 1501 PROSPECT AVENUE KANEAS CITY, MO 64127 TELEPHONE NUMBER: 1501 PROSPECT AVENUE KANEAS CITY, MO 64127 TELEPHONE NUMBER: 1501 PROSPECT AVENUE KANEAS CITY, MO 64127 TELEPHONE NUMBER: 1501 PROSPECT AVENUE KANEAS CITY, MO 64127 THE PHONE NUMBER: 1501 PROSPECT AVENUE KANEAS CITY, MO 64127 THE PHONE NUMBER: 1501 PROSPECT AVENUE KANEAS CITY, MO 64127 THE PHONE NUMBER: 1501 PROSPECT AVENUE KANEAS CITY, MO 64127 THE PHONE NUMBER: 1501 PROSPECT AVENUE KANEAS CITY, MO 64127 THE PHONE NUMBER: 1501 PROSPECT AVENUE KANEAS CITY, MO 64127 THE PHONE NUMBER: 1501 PROSPECT AVENUE KANEAS CITY, MO 64127 THE PHONE NUMBER: 1501 PROSPECT AVENUE KANEAS CITY, MO 64127 THE PHONE NUMBER: 1501 PROSPECT AVENUE KANEAS CITY, MO 64127 THE PHONE NUMBER: 1501 PROSPECT AVENUE KANEAS CITY, MO 64127 THE PHONE NUMBER: 1501 PROSPECT AVENUE KANEAS CITY, MO 64127 THE PHONE NUMBER: 1501 PROSPECT AVENUE KANEAS CITY, MO 64127 THE PHONE NUMBER: 1501 PROSPECT AVENUE KANEAS CITY, MO 64127 THE PHONE NUMBER: 1501 PROSPECT AVENUE KANEAS CITY, MO 64127 THE PHONE NUMBER: 1501 PROSPECT AVENUE KANEAS CITY, MO 64127 THE PHONE NUMBER: 1501 PROSPECT AVENUE THE PHONE NUMBER: 1501 PROSPECT		of Printing Inks	An Inland Industries Company	y		116	rision dai e	200070	1767
SECTION I PRODUCT IDENTIFICATION PRODUCT CLASS. Printing Ink, Daidizing PRODUCT NAME N/C-T X/S PANTONE(R) 012 Yellow SECTION II MANUFACTURER MANUFACTURERS NAME: MILLER COOPER COMPANY STREET ADDRESS: STORY MO PROPERT AVENUE COTT, GRINTE, DP COOLE COT	Dan Dujų.	s or Grapine Arts Supplies		AZARDOUS	MATERIALS IDENTIFICATION	N RATING.	<u> </u>	1 .0	
All ingredients in this product are on the TSCA Inventory List 40 CPR 710 Emergency Response Telephone (800) 299-6246 Ext. 600 Emergency Response Telephone (800) 299-6246 Ext. 600 Emergency Response Telephone (800) 299-6246 Ext. 600 SECTION IN HAVARDOUS INVENTOR TO THE PROPERTY WINTER AND ADDRESS TO THE PROPERTY WINTER ACCI. Pigment Yellow 13 All ingredients in this product are on the TSCA Inventory List 40 CPR 710 Emergency Response Telephone (800) 299-6246 Ext. 600 SECTION IN PHYSICAL DATA OULNG RANGE WAPOR DENSITY WARE UNGHTER WEIGHT WINTER TO THE PROPERTY WANTER 450 ** WITH HAVARDOUS IN THE PRODUCT WAS INVENTOR TO THE PROPERTY WANTER 450 ** WITH HAVE WEIGHT WINTER WEIGHT WINTER TO THE PROPERTY WANTER WEIGHT WAS INVESTIGATED WEIGHT WEIGHT WEIGHT WEIGHT WEIGHT WEIGHT WAS INVESTIGATED WEIGHT WEIGHT WEIGHT WEIGHT WAS INVESTIGATED WEIGHT WEIGHT WAS INVESTIGATED WEIGHT WEIGHT WAS INVESTIGATED WEIGHT WAS INVESTIGATED WEIGHT WAS INVESTIGATED WEIGHT WEIGHT WAS INVESTIGATED WAS INVESTIGATED WEIGHT WAS INVESTIGATED WAS INVESTIG								<u> </u>	
MANUFACTURES NAME MANUFACTURES NAME STREET ADDRESS: 1609 PROOPERT AVENUE CITY, STATE, 270 CODE CITY, STATE, 270 CODE TREPHONE NUMBER: (17) 694853220 SECTION III HAZARBOUS INGREDIENTS INGREDIENT CAS: SECTION III HAZARBOUS INGREDIENTS Hydrotreated Light Distillate G4742-47-8 2400 mg/m3 (8 Hour) N/A N/A N/A N/A N/A N/A N/A N/A N/A A ALL ingredients in this product are on the TSCA Inventory List 40 CFR 710 Emergency Response Telephone (800) 289-6246 Ext. 500 SECTION IN PHYSICAL DATA OLUNG RANGE WAPOR DENSITY WARE UGHTER SECTION III PHYSICAL DATA LEW PORATION HAZARD MATER Yellov Paste Oleoresinous X/Y SHOWER PASTE SECTION V FIRE S EXPLOSION DATA AMABILITY CLASSIFICATION SECTION V FIRE S EXPLOSION DATA METHODOCOC THOMUSHING METHOD X FOAM ALCOHOL FOAM XX ON XX ORY CHEMICAL XX WATER FOG OTHER COLOR FIRE SOURCES OF ENTRY: INHALATION XX SKIN INHALED INGREDIENT MARY ROUTERS OF ENTRY: INHALATION XX SKIN INHALED AMARY ROUTERS OF ENTRY: INHALATION XX SKIN INHALED INGREDIENT INHALATION X SCRIPTON OF ENTRY: INHALATION X SKETTON OF ENTRY: INHALATION X SCRIPTON OF ENTRY: INHALE CODE TO VALUE ASSERTION OF ENTRY IN THE CASE OF THE CODE TO VALUE AS A SOURCE OF ENTRY IN THE CASE OF THE CODE TO VA	PRODUCT CLASS: [PRODUCT NAME:]	rinting Ink, 1/C-T X/S PAN	Oxidizina			M/	NUFACTURE	R'S CODE:	
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NO.459 SECTION VI HEALTH HAZARD DATA — CONTINI

EMERGENCY FIRST AID PROCEDURES:

1. SKIN CONTACT:

Wash affected area with soap and water

2. EYE CONTACT:

- 1. Flush eyes with copious amounts of water for at least fifteen minutes
- 2. Consult physician if irritation developes

3. INGESTION:

DO NOT INDUCE VOMITING! Dilute with 1-2 glasses of water Consult a physician

SECTION VII REACTIVITY DATA

PROJUCT STABILITY

STABLE

UNSTABLE HAZARDOUS POLYMERIZATION

MAY OCCUR LXX WILL NOT OCCL

CONDITIONS TO AVOID: Strong Oxidizers

SECTION VIII SPILL OR LEAK PROCEDURES

PROCEDURES WHEN MATERIAL IS SPILLED OR RELEASED:

- 1. Remove all sources of ignition
- 2. Wipe up or shovel material into an approved container
- 3. Wash spill area with scap and water

WASTE DISPOSAL METHODS:

Dispose of in accordance with local, state and federal regulations

SECTION IX PERSONAL PROTECTION INFORMATION

VENTILATION: Normal fresh air is usually sufficient . In confined areas provide one cubic foot per minute per square foot of area.

RESPIRATORY EQUIPMENT Not needed if good ventilation is maintained EYEPROTECTION: Splesh goggles are recommended during wash-up OTHER EQUIPMENT: None

SECTION X SPECIAL PRECAUTIONS

HANDLING AND STORAGE:

A moderately cool, well ventilated area is adequate Labels should be visible

SECTION XI SARA TITLE III, SECTION 313, SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHTIO-KNOW ACT OF 1986 AND OF 40 CFR 372:

CHEMICAL NAME

CAS NO.

% BY WEIGHT

Cobalt Compounds Manganese Compounds

7440-48-4

2.0

7439-96-5

2.0

NOTE: THIS INFORMATION MUST BE INCLUDED IN ALL MATERIAL SAFETY DATA SHEETS THAT ARE COPIED AND DISTRIBUTED FOR THIS PRODUCT.

*PANTONE INC.'S CHECK STANDARD TRADEMARK FOR COLOR REPRODUCTION AND COLOR REPRODUCTION MATERIALS.

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MATERIAL SAFE 1 DATA SHEET For Printing links and Related Materials

REVISION DATE 2000/07/07

Distributors of Graphic Arts Supplies and Equipment		•				_
		MATERIALS IDENTI		VG: H 1	FI A	P/E
		T IDENTIFICAT	ION			
PRODUCT CLASS: Printing Ink, Oxidizing PRODUCT NAME: M/C-T X/S PANTONE(R)	ng Violet			MANUFACTUR	RER'S CODE:	
				8601	5-V	•
SE	CTION II MA	NUFACTURER		2001	G-X	
MANUFACTURE	R'S NAME:	MILLER COOPER (OMPANY			
	ADDRESS:	1601 PROSPECT AL				
CITY, STATE,		KANSAS CITY, MO	B4127			
TELEPHONE		(818) 483-5020			-	
	III PIAZAKL	OOUS INGREDIE	INTS	00114	4.7.4.	
INGREDIENT			CAS #	OSHA PEL	ACGI # TIV	(OFTION
Hydrotreated Light Distillate		64743	2-47-8	2400 mg	/m2 / 0	27 - \
Vegetable Oils		N/A	- 1/ 0	N/A	/ III.3 (G	nour)
C.I. Pigment Violet 3		1325	-82-2	15 mg/m	3 as du	st
				_		
•						
All ingredients in this product 40 CFR 710	t are o	n the TSC	Invent	ory List		
Emergency Response Tel						
		YSICAL DATA	-6246 EX	t. 600		
BOILING RANGE VAPOR DENSITY VS AIR		ENSITY VS WATER	· · · · · · · · · · · · · · · · · · ·	PERCENT VOLA		
450 °F XX HEAVIER LIGHTER		NER XX HEIV				17
APPEARANCE ODOR		ATION RATE VS BU			10	
Blue Paste Oleoresinous	us LXX	OWER	FASTER			
SECTION SECTION		XPLOSION DA				
DSHA: III-B	FLASH POIN 265		L-EL	•	•	
DOT. Not Regulated	METHOD C	oc		Not Expl	losive	
EXTINGUISHING METHOD	<u></u>			<u> </u>		
XX FOAM ALCOHOL FOAM XX CO2 X	DRY CHEMI	ICAL.	XX WATER	1 500		
			THE TOTAL	TOG	OTHER	
JNUSUAL FIRE AND EXPLOSION HAZARDS: 1. Isolate containers from heat		. .				
	1 የኮ⇔ռ ነ	ነህንግኝክሎ		gnition		
3. Firetighters should be equip	ed with	self-con	tained			
breathing apparatus and turnout PECIAL FIREFIGHTING PROCEDURES:	gear		,			
. TOICE HERIEU HAG FROCEDOMES:						
Keep container cool to prevent	pressur	e build u	מ			
due to extreme heat.						
SECTION	VI HEALTH	HAZARD DAT	Д			
	ON	XX SKIN			GESTION	
RIMARY ROUTE(S) OF ENTRY: INHALATI						
FFECTS OF OVEREXPOSURE:	. • • •					
FFECTS OF OVEREXPOSURE: 1. Prolonged contact may cause 2. Eye contact may cause irrite	+ + ~ m					
FFECTS OF OVEREXPOSURE: 1. Prolonged contact may cause 2. Eye contact may cause irrite 3. Excessive inhalation of vanc	tion re or m	deto move -	Cause lo	oca l		
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NO. 459 P. 7/21 SECTION VI HEALTH HAZARD DATA — CONTINU

EMERGENCY FIRST AID PROCEDURES:

1. SKIN CONTACT:

Wash affected area with soap and water

2. EYE CONTACT:

- 1. Flush eyes with copious amounts of water for at least fifteen minutes
- 2. Consult physician if irritation developes

3. INGESTION:

DO NOT INDUCE VOMITING: Dilute with 1-2 glasses of water Consult a physician

	SECTION VII REACTIVITY DATA	
PROJUCT STABLETY XX STABLE	UNSTABLE HAZARDOUS POLYMERIZATION	Luw oppus [
CONDITIONS TO AVOID: Strong Oxid	izers	MAY OCCUR LXX WILL NOT OCCU

SECTION VIII SPILL OR LEAK PROCEDURES

PROCEDURES WHEN MATERIAL IS SPILLED OR RELEASED:

- 1. Remove all sources of ignition
- 2. Wipe up or shovel material into an approved container
- 3. Wash spill area with soap and water

WASTE DISPOSAL METHODS:

Dispose of in accordance with local, state and federal regulations

SECTION IX PERSONAL PROTECTION INFORMATION

VENTILATION: Normal fresh air is usually sufficient. In confined areas provide one cubic foot per minute per square foot of area.

PROTECTIVE GLOVES: Recommended

RESPIRATORY EQUIPMENT: Not needed if good ventilation is maintained EYE PROTECTION: Splesh goggles are recommended during wesh-up None

SECTION X SPECIAL PRECAUTIONS

HANDLING AND STORAGE:

A moderately cool, well ventilated area is adequate Labels should be visible

SECTION XI SARA TITLE III, SECTION 313, SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHTIO-KNOW ACT OF 1988 AND OF 40 CFR 372:

CHEMICAL NAME	CAS NO.	% BY WEIGHT
Cobalt Compounds	7440-48-4	2. Ø
Manganese Compounds	7439-96-5	2. Ø

NOTE: THIS INFORMATION MUST BE INCLUDED IN ALL MATERIAL SAFETY DATA SHEETS THAT ARE COPIED AND DISTRIBUTED FOR THIS PRODUCT.

*PANTONE INC:5 CHECK STANDARD TRADEMARK FOR COLOR REPRODUCTION AND COLOR REPRODUCTION MATERIALS.

PAGE 2 OF 2
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MATERIAL SAFE IT DATA SHEE For Printing inks and Related Materials

Distributors of Graphic Arts Supplies and Equipment		S MATERIALS IDENTIFICATION	RATING:	H1 F1	R Ø P/E
		ICT IDENTIFICATION			RED PRE
PRODUCT CLASS: Printing Ink, Oxidizin PRODUCT NAME: M/C-T X/S PANTONE(R) 0	a		M	ANUFACTURER'S CO	DDE:
SEC	TION II M	IANUFACTURER		86021-X	
MANUFACTURE	I'S NAME: ADDRESS: LIP CODE:	MILLER COOPER COMPANY 1801 PROSPECT AVENUE KANSAS CITY, MO 64127 (816) 483-5020		•	
SECTION	III HAZAF	DOUS INGREDIENTS			
INGREDIENT		CAS#		OSHA AC PEL T	GI# % IV (OPTIONA
Hydrotreated Light Distillate Vegetable Oils C.I. Pigment Orange 34		64742-47- N/A 15793-73-	N.	100 mg/m3 /A 5 mg/m3 as	
All ingredients in this product 40 CFR 710 Emergency Response Tele	phone	(800) 289-6246			
BOILING RANGE VAPOR DENSITY VS AIR		IYSICAL DATA			
	I	DENSITY VS WATER	PER	CENT VOLATILE BY	WEIGHT
450 F XX HEAVIER LIGHTER		AVIER XX LIGHTER RATION RATE VS BUTYL ACET		~10	
Orange Paste Oleoresinous	XX 8	LOWER FASTER	MIE.		
FLAMABILITY CLASSIFICATION SECTION		EXPLOSION DATA:			**
OSHA: III-B	FLASH PO 265	· ·	LEL		
DOT. Not Regulated	METHOD		No	t Explosi	/e
EXTINGUISHING METHOD XX FOAM ALCOHOL FOAM XX CO2 XX	DRY CHE	MICAL XX	NATER FOG		THER
UNUSUAL FIRE AND EXPLOSION HAZARDS: 1. Isolate containers from heat 2. Dense smoke may be generated 3. Firefighters should be equip breathing apparatus and turnout SPECIAL FIREFIGHTING PROCEDURES:	When ed wit	hurning		tion	
Keep container cool to prevent due to extreme heat.					
SECTION	VI HEALT	H HAZARD DATA			
PRIMARY ROUTE(S) OF ENTRY: INHALATIO	••	ХХ sкім		INGESTIO	N
1. Prolonged contact may cause of 2. Eye contact may cause irritated 3. Excessive inhalation of vapor irritation, pneumonia or central ARCINOGENICITY: N.TP? No IARC MONOGRAPHS?	tion	mists man sauda	loca. ession	L 1	
ATTAC	PAGE 1 OF	1/2 Page 20160			

EMERGENCY FIRST AID PROCEDURES:

1, SKIN CONTACT:

Wash affected area with scap and water

2. EYE CONTACT:

- 1. Flush eyes with copious amounts of water for at least fifteen minutes
- 2. Consult physician if irritation developes

3. INGESTION:

DO NOT INDUCE VOMITING: Dilute with 1-2 glasses of water Consult a physician

		SECTION VILKEACTIVITY DATA	
PROJUCT STABILITY	XX STABLE	UNSTABLE HAZARDOUS POLYMERIZATION	MAY OCCUR XX WILL NOT OCCU
CONDITIONS TO AVOID: St	rong Oxidi	zers	WILL WILL SOCIAL INTERPRETATION OCCU

SECTION VIII SPILL OR LEAK PROCEDURES

PROCEDURES WHEN MATERIAL IS SPILLED OR RELEASED:

- 1. Remove all sources of ignition
- 2. Wipe up or shovel material into an approved container
- 3. Wash spill area with scap and water

WASTE DISPOSAL METHODS:

Dispose of in accordance with local, state and federal regulations

SECTION IX PERSONAL PROTECTION INFORMATION

VENTILATION: Normal fresh air is usually sufficient. In confined areas provide one cubic foot per minute per square foot of area. PROTECTIVE GLOVES: Recommended

RESPIRATORY EQUIPMENT Not needed if good ventilation is maintained EYE PROTECTION: Splash goggles are recommended during wash-up other Equipment None

SECTION X SPECIAL PRECAUTIONS

HANDLING AND STORAGE:

A moderately cool, well ventilated area is adequate Labels should be visible

SECTION XI SARA TITLE III, SECTION 313, SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHTIC-KNOW ACT OF 1986 AND OF 40 CFR 372:

CHEMICAL NAME	CAS NO.	% BY WEIGHT
Cobalt Compounds	7440-48-4	2. 0
Manganese Compounds	7439-96-5	2. 0

NOTE: THIS INFORMATION MUST BE INCLUDED IN ALL MATERIAL SAFETY DATA SHEETS THAT ARE COPIED AND DISTRIBUTED FOR THIS PRODUCT.

*PANTONE INC.*2 CHECK STANDARD TRADEMARK FOR COLOR REPRODUCTION AND COLOR REPRODUCTION MATERIALS.



MATERIAL SAFETY DATA SHEET For Printing Inks and Related Materials

Distributors of	f Graphic Arts Supplies and Equ			[ਹ ੇ
			S MATERIALS IDENTIFICATION F	RATING: H 1 F	1 RO PE
BRODUCT CLASS: Dis	inting Tab Co.		CT IDENTIFICATION		
PRODUCT NAME: M/	inting Ink, Ox: C-T X/S PANTON	idizing E(R) 032 Red		MANUFACTURE	rs code:
		- W GOZ MEG		86032	- Y
		SECTION II M	ANUFACTURER	2001	76
	MAN	UFACTURER'S NAME:	MILLER COOPER COMPANY		
		STREET ADDRESS;	1601 PROSPECT AVENUE		
		ITY, STATE, ZIP CODE: ELEPHONE NUMBER:	KANSAS CITY, MO 64127 (816) 483-5020		
			DOUS INGREDIENTS		
•	INGREDIENT			OSHA	ACGI# %
			Cas #	PEL	ACGI# % TIV (OPTION
Hydrotreate	ed Light Distil	late	64742-47-8	3 2400 mg/r	m3 (8 Hour)
Vegetable (N/A	N/A	,
C.I. Pigmer	it ked 112		6535-46-24	4 15 mg/m3	es dust
40 CFR 710	iente in this p	roduct are d	on the TSCA Inve	entory List	
	ergency Respons	e Telephone	(800) 289-6246	Fut Can	
		SECTION IV PI	HYSICAL DATA	EXC. 600	
OILING RANGE	VAPOR DENSITY VS AIR		DENSITY VS WATER	PERCENT VOLATIL	E DV MEICHT
450 ∘⊧	XX HEAVIER	LIGHTER HE			
APPEARANCE	ODOR	EVAPO	PRATION RATE VS BUTYL ACETA		ì
Red Paste	Oleoresinous	kx_Js	LOWER FASTER		
LAMABILITY CLASSIFICA	TION	SECTION V FIRE ST	EXPLOSION DATA		
SHA: III-B		265		LEL	
MI Not Regul	ated	METHOD	מכ	Not Explo	sive
EXTINGUISHING METHOD					
X FOAM A	LCOHOL FOAM XX CO	DRY CHEN	MICAL XX W	ATER FOG	OTHER
				ALA POG	OIMEH
NUSUAL FIRE AND EXPLO	SION HAZARDS:	_ 44			
2. Dense sm	oke may be gene	m neat and o arated when	ther sources of	ignition	
d. Firefigh	ters should be	equiped wit	h self-containe	d	•
niescurud s	pparatus and ti	rnout gear		·	
PECIAL FIREFIGHTING PF	łocedures: .				
Keep contai:	ner cool to pre	event pressu	re build up		
due to extr	eme heat.		up		
		SECTION VI HEALT	H HAZARD DATA		
RIMARY ROUTE(S) OF ENT		INHALATION	XX skin	INC	ESTION
FFECTS OF OVEREXPOSU				— INGE	BIIUN
2. Eve conte	d contact may c act may cause i	ause skin in	rration		
J. Excessive	≥ inhalation of	Vanore or i	mists may cause	11	
	husamburg or G	entral nerv	ous system depre	TOCST	
ARCINOGENICITY: N.T.	NO IARC MONO	GRAPHS? No	OSHA REGULATED? No		
		DAGE			
			2 /2 Para 60 nf (a)		
			以 one to not lan		

NO. 459 P. 11/21 SECTION VI HEALTH HAZARD DATA — CONTINU

EMERGENCY FIRST AID PROCEDURES:

1. SKIN CONTACT:

Wash affected area with soap and water

2, EYE CONTACT:

- 1. Flush eyes with copious amounts of water for at least fifteen minutes
- 2. Consult physician if irritation developes

3. INGESTION:

DO NOT INDUCE VOMITING! Dilute with 1-2 glasses of water Consult a physician

SECTION	VII REACTIVITY DAT	А

PRODUCT STABILITY

XX STABLE

UNSTABLE HAZARDOUS POLYMERIZATION

MAY OCCUR XX WILL NOT OCCU

CONDITIONS TO AVOID: Strong Oxidizers

SECTION VIII SPILL OR LEAK PROCEDURES

PROCEDURES WHEN MATERIAL IS SPILLED OR RELEASED:

- 1. Remove all sources of ignition
- 2. Wipe up or shovel material into an approved container
- 3. Wash spill area with soap and water

WASTE DISPOSAL METHODS:

Dispose of in accordance with local, state and federal regulations

SECTION IX PERSONAL PROTECTION INFORMATION

VENTILATION: Normal fresh air is usually sufficient . In confined areas provide one cubic foot per minute per square foot of area.

PROTECTIVE GLOVES: Recommended

RESPIRATORY EQUIPMENT: Not needed if good ventilation is maintained EYE PROTECTION:
Splash goggles are recommended during wash-up None

SECTION X SPECIAL PRECAUTIONS

HANDLING AND STORAGE:

A moderately cool, well ventilated area is adequate Labels should be visible

SECTION XI SARA TITLE III, SECTION 313, SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 318 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHTIO-KNOW ACT OF 1988 AND OF 40 CFR 372:

CHEMICAL NAME

CAS NO.

% BY WEIGHT

Cobalt Compounds Manganese Compounds

7440-48-4

2.0

7439~96-5

2.0

NOTE: THIS INFORMATION MUST BE INCLUDED IN ALL MATERIAL SAFETY DATA SHEETS THAT ARE COPIED AND DISTRIBUTED FOR THIS PRODUCT.

PANTONE INC. S CHECK STANDARD TRADEMARK FOR COLOR REPRODUCTION AND COLOR REPRODUCTION MATERIALS.

ATTAURINENT DPage \$ 0560



MATENIAL SAFE: 12 ZATA SHEE For Printing inks and Related Materials

Dietribut	ons of Gr	aphic Arts Supplies o		HAZARDOU!	S MATERIALS IDEN	ITIGIĆATIĆN GAT	ING: H	FI B	Ø PrE
					CT IDENTIFIC		[MG; <u>H</u>	F HI	<u> </u>
PRODUCT CLASS: PRODUCT NAME:	Prin	ting Ink, T X/S PAN	Oxidizing TONE(R) Ø	72 Blu	e		MANUFAC	TURER'S CODE:	
							86	072 −x	
		,	SECT	LION II M	ANUFACTURE	R			
			MANUFACTURER' STREET A CITY, STATE, Z TELEPHONE N	DDRESS: IP CODE:	MILLER COOPE 1601 PROSPECT KANSAS CITY, N (816) 463-5020	AVENUE			
			SECTION I	II HAZAF	DOUS INGRE	DIENTS			
		NGREDIEN	чт			CAS#	OSHA PEL	ACGI #	(OPTIONA
Vegetab1	e Oi	Light Dia ls Blue 1:2	stillate		N/A	42-47-B 13-81-0	N/A	ng/m3 (8 /m3 as d	
40 CFR 7	10	nts in thi gency Resp	onse Tele	phone	(800) 28	9-6246 E	_	st.	
BOILING BANGE				1					
	!_			LIQUID	DENSITY VS WATE	R	PERCENT V	DLATILE BY WEI	GHT
Emergency Response Telephone (800) 289-6246 Ext. 600 SECTION IV PHYSICAL DATA BOILING RANGE WAPOR DENSITY VS AIR LIQUID DENSITY VS WATER PERCENT VOLATILE BY WEIGHT 450 9									
	ë		lõus			_		•	
			SECTION						
	IFICATIO	N			1	LE	.L,	· · · · · · · · · · · · · · · · · · ·	la
	gulai	ted		1			Not Ex	plosive	
		HOL FOAM X	X co₂ XX	DRY CHE	MICAL	ITAW EXX	ER FOG	OTHE	<u></u>
 Isola Dense Firef: breathing 	te co smol ighte g app	ontainers te may be ers should paratus an	generated be equip	when ed wit	burning		ignition		
Keep cont due to e	taine xtrem	er cool to be heat.	prevent	pressu	re build	пр			
			SECTION	VI HEALT	H HAZARD D	ATA			
FFECTS OF OVEREX 1. Prolor 2. Eye oc 3. Excess	POSURE nged ontac sive	contact may cause inhalation	ay cause : se irritat n of vapor	skin i tion	rration	r causa l	.ocal ssion	JINGESTION	
			ATTAC	PAGE 1 OF	L Page 1	of leo			

NO.459 P.13/21 SECTION VI HEALTH HAZARD DATA — CONTINUE

EMERGENCY FIRST AID PROCEDURES:

1. SKIN CONTACT:

Wash affected area with soap and water

2. EYE CONTACT:

- 1. Flush eyes with copious amounts of water for at least fifteen minutes
- 2. Consult physician if irritation developes

3. INGESTION:

DO NOT INDUCE VOMITING: Dilute with 1-2 glasses of water Consult a physician

		SECTION VILREACTIVITY DATA	
PROJUCT STABILITY	XX STABLE	UNSTABLE HAZARDOUS POLYMERIZATION	MAY OCCUR XX WILL NOT OCCUI
CONDITIONS TO AVOID: 5	trong Oxid	izers	

SECTION VIII SPILL OR LEAK PROCEDURES

PROCEDURES WHEN MATERIAL IS SPILLED OR RELEASED:

- 1. Remove all sources of ignition
- 2. Wipe up or shovel material into an approved container
- 3. Wash spill area with scap and water

WASTE DISPOSAL METHODS:

Dispose of in accordance with local, state and federal regulations

SECTION IX PERSONAL PROTECTION INFORMATION

VENTILATION: Normal fresh air is usually sufficient . In confined areas provide one cubic foot per minute per square foot of area.

PROTECTIVE GLOVES: Recommended

RESPIRATORY EQUIPMENT Not needed if good ventilation is maintained EYE PROTECTION: Splash goggles are recommended during wash-up OTHER EQUIPMENT None

SECTION X SPECIAL PRECAUTIONS

HANDLING AND STORAGE:

A moderately cool, well ventilated area is adequate Labels should be visible

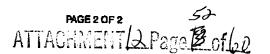
SECTION XI SARA TITLE III, SECTION 313, SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHTIO-KNOW ACT OF 1988 AND OF 40 CFR 372:

CHEMICAL NAME	CAS NO.	% BY WEIGHT
Cobelt Compounds	7440-48-4	2. Ø
Manganese Compounds	7439-96-5	2. Ø

NOTE: THIS INFORMATION MUST BE INCLUDED IN ALL MATERIAL SAFETY DATA SHEETS THAT ARE COPIED AND DISTRIBUTED FOR THIS PRODUCT,

*PANTONE (NC.'S CHECK STANDARD TRADEMARK FOR COLOR REPRODUCTION AND COLOR REPRODUCTION MATERIALS.





MATENO. 459SAFP: 14/21ATA SHEET For Printing Inks and Related Materials

Distributors of Graphic Arts Supplies and Equipment		HI FI RØ RE
	ARDOUS MATERIALS IDENTIFICATION RATING	HI FI RO PIE
	RODUCT IDENTIFICATION	
PRODUCT CLASS: Printing Ink, Oxidizing PRODUCT NAME: M/C-T X/S Premium Proces:	s Black	MANUFACTURER'S CODE:
EMPROPER MANUAL SESSION TO SESSION SES	, J. 100h	862440A
SECTIO	N II MANUFACTURER	
MANUFACTURER'S N.	AME: MILLER COOPER COMPANY	
STREET ADDR		
CITY, STATE, ZIP C		
TELEPHONE NUM		
SECTION III I	IAZARDOUS INGREDIENTS	
INGREDIENT	CAS #	OSHA ACGI# % PEL TIV (OPTIONA
Hydrotreated Light Distillate	64742-47-8	2400 mg/m3 (& Hour)
Vegetable Oils	N/A	N/A
C.I. Pigment Black 7	1333-86-4	3.5 - 9 mg/m3 as due
C.I. Pigment Blue 61	1324-76-1	15 mg/m3 as dust
All ingredients in this product : 40 CFR 710 Emergency Response Teleph	none (800) 289-6246 Ext	-
	N IV PHYSICAL DATA	
BOILING RANGE VAPOR DENSITY VS AIR		PERCENT VOLATILE BY WEIGHT
450 °F XX HEAVIER LIGHTER	HEAVIER XX LIGHTER	~10
APPEARANCE ODOR Black Paste Oleoresinous	EVAPORATION RATE VS BUTYL ACETATE SLOWER FASTER	,
	FIRE & EXPLOSION DATA	
FLAMABILITY CLASSIFICATION FI OSHA: III-B	ASH POINT LEL	
	265 °F ETHODCOC	Not Explosive
DOHTOM DAIL MAOF JOHOOJA WEST MAOF I	RY CHEMICAL XX WATER	FOGOTHER
UNUSUAL FIRE AND EXPLOSION HAZARDS:		
1. Isolate containers from heat a	and other sources of io	nition
2. Dense smoke may be generated w	hen burning	
3. Firefighters should be equiped		
breathing apparatus and turnout goodstanding Procedures:	ear	
Committee of the control of the cont		
Keep container cool to prevent produce to extreme heat.	essure build up	. •
SECTION VI	HEALTH HAZARD DATA	
PRIMARY ROUTE(S) OF ENTRY: INHALATION EFFECTS OF OVEREXPOSURE:	хх экім	INGESTION
 Prolonged contact may cause sk Eye contact may cause irritati 	on	
3. Excessive inhalation of vapors	or mists may cause lo	cal
irritation, pneumonia or central CARCHOGENICITY: NIP? No IARC MONOGRAPHS? No	nervous system depress OSHA REGULATED? No	ion

EMERGENCY FIRST AID PROCEDURES:

1. SKIN CONTACT:

Wash affected area with soap and water

2. EYE CONTACT:

- 1. Flush eyes with copious amounts of water for at least fifteen minutes
- 2. Consult physician if irritation developes

3. INGESTION:

DO NOT INDUCE VOMITING! Dilute with 1-2 glasses of water Consult a physician

SECTION VILREACTIVITY DATA

PROJUCT STABILITY

STABLE

UNSTABLE HAZARDOUS POLYMERIZATION

MAY OCCUR XXX WILL NOT OCCU

CONDITIONS TO AVOID; Strong Oxidizers

SECTION VIII SPILL OR LEAK PROCEDURES

PROCEDURES WHEN MATERIAL IS SPILLED OR RELEASED:

- 1. Remove all sources of ignition
- 2. Wipe up or shovel material into an approved container
- 3. Wash spill area with soap and water

WASTE DISPOSAL METHODS:

Dispose of in accordance with local, state and federal regulations

SECTION IX PERSONAL PROTECTION INFORMATION

VENTILATION: Normal fresh air is usually sufficient . In confined areas provide one cubic foot per minute per square foot of area. PROTECTIVE GLOVES: Recommended

RESPIRATORY EQUIPMENT: Not needed if good ventilation is maintained EYEPROTECTION: Splash goggles are recommended during wash-up OTHER EQUIPMENT None

SECTION X SPECIAL PRECAUTIONS

HANDLING AND STORAGE:

A moderately cool, well ventilated area is adequate Labels should be visible

SECTION XI SARA TITLE III, SECTION 313, SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHTID-KNOW ACT OF 1986 AND OF 40 CFR 372:

CHEMICAL NAME

CAS NO.

Cobalt Compounds Manganese Compounds

7440-48-4

2.0

7439-96-5

2.0

NOTE: THIS INFORMATION MUST BE INCLUDED IN ALL MATERIAL SAFETY DATA SHEETS THAT ARE COPIED AND DISTRIBUTED FOR THIS PRODUCT.

*PANTONE INC.'S CHECK STANDARD TRADEMARK FOR COLOR REPRODUCTION AND COLOR REPRODUCTION MATERIALS.

PAGE 2 OF 2

ATTACHMENT A Paga that lan



MATERIAL SAFE: 16/21ATA SHEET For Printing links and Related Materials

Camou	rars or G	orapnie Aris Supplies	ana cquipment	HAZARDOU	S MATERIALS IDENT	TFICATION RA	TING: H	1 _F [1]	R Ø	P/E
PRODUCT CLASS:	Pri	nting Ink,			CT IDENTIFICA	TION		FACTURER'S C	ODE:	
PRODUCT NAME:	M/C	-T X/S Pre	mium Proc	ess Cy	an					
			\$EC	TION II W	ANUFACTURER			862441A		
			MANUFACTURE STREET CITY, STATE, TELEPHONE	ADDRESS: ZIP CODE:	MILLER COOPER 1601 PROSPECT A KANSAS CITY, MO (816) 483-5020	VENUE				
			SECTION	III HAZAR	DOUS INGREDI	ENTS				
		INGREDIE	NT			CAS#	OS PE	HA A' IL	CGI#	(OPTIONA
Vegetabl	le Of	i Light Di ile : Blue 15:			N/A	2-47-8 14-8	N/A	mg/m3 mg/m3 as		
All ingr 40 CFR 7	10	ents in the	ponse Tel	ephone	(800) 289	-62 46 E	_			
BOILING RANGE	Į,	VAPOR DENSITY VS			HYSICAL DATA					
450	I.	HEAVIER	LIGHTER		AVIER XX LI		PERCEN	IT VOLATILE BY	Y WEIGHT	
APPEARANCE Blue Past		ODOR Oleoresin		EVAPO	PRATION RATE VS BI	TYL ACETATE	<u> </u>	~10		
Dine Last	.6	OTEOLESIA			EXPLOSION DA	FASTER				-
Flamability class Osha: III-B	SIFICATION	NC		FLASH PO	INT		E.L.			
DOT. Not Re	gula	ted		METHOD			Not	Explosi	.ve	
EXTINGUISHING ME	-	OHOL FOAM }	(k sco 区	DRY CHE	MICAL	FAW XX	TEA FOG		OTHER	
UNUSUAL FIRE AND	EXPLOS	ION HAZARDS:						•		
1. Isola	te c	ontainers ke may be	from heat	and o	ther sour	ces of	igniti	on		
3. Firef	ight	ere should	be equip	ttw bec	nurning h self-co	ntained	•			
breathin PECIAL FIREFIGHT	g ap	paratus an	d turnout	gear						
	tain	er cool to	prevent	pressu	re build :	αp				
ade to e	xcie	me hear.	SECTION	VIHEALT	H HAZARD DA	TΑ		P.C.		(f - 1)
PRIMARY ROUTE(S) C			INHALATI		XX SKIN			INGEST	ION	
FFECTS OF OVERED		e contact m	AN COURS	abin i	mmmtian					
<. Eye c	onteo	st may cau	se irrita	tion	•					
irritati irritati ARCINOGENICITY:	Bive on, o NTP?	inhalatio pneumonia No IARC	n of vapo or centra :MONOGRAPHS?	rs or 1 nerv No	mista may ous system OSHA REGULATER	ceuse : n depre: o? No	local ssion			
Assert			ATTA	PAGE 1 OF		of 6 p				.

EMERGENCY FIRST AID PROCEDURES:

1. SKIN CONTACT:

Wash affected area with soap and water

2. EYE CONTACT:

- 1. Flush eyes with copious amounts of water for at least fifteen minutes
- 2. Consult physician if irritation developes

3, INGESTION:

DO NOT INDUCE VOMITING: Dilute with 1-2 glasses of water Consult a physician

		SECTION VITREACTIVITY DATA	
PRODUCT STABILITY	XXSTABLE	UNSTABLE HAZARDOUS POLYMERIZATION	MAY OCCUR WWW WILL NOT OCCU
CONDITIONS TO AVOID: S	trong Oxidi	zers	

SECTION VIII SPILL OR LEAK PROCEDURES

PROCEDURES WHEN MATERIAL IS SPILLED OR RELEASED:

- 1. Remove all sources of ignition
- 2. Wipe up or shovel material into an approved container
- 3. Wash spill area with soap and water

WASTE DISPOSAL METHODS:

Dispose of in accordance with local, state and federal regulations

SECTION IX PERSONAL PROTECTION INFORMATION

VENTRATION: Normal fresh air is usually sufficient . In confined areas provide one cubic foot per minute per square foot of area.

PROTECTIVE GLOVES: Recommended

RESPIRATORY EQUIPMENT: Not needed if good ventilation is maintained EYE PROTECTION: Splash goggles are recommended during wash-up OTHER EQUIPMENT: None

SECTION X SPECIAL PRECAUTIONS

HANDLING AND STORAGE:

A moderately cool, well ventilated area is adequate Labels should be visible

SECTION XI SARA TITLE III, SECTION 313, SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHTFO-KNOW ACT OF 1986 AND OF 40 CFR 372:

CHEMICAL NAME	CAS NO.	% BY WEIGHT
Cobalt Compounds	7440-48-4	2. Ø
Manganese Compounds	7439-96-5	2. Ø

NOTE: THIS INFORMATION MUST BE INCLUDED IN ALL MATERIAL SAFETY DATA SHEETS THAT ARE COPIED AND DISTRIBUTED FOR THIS PRODUCT.

PANTONE INC.'S CHECK STANDARD TRADEMARK FOR COLOR REPRODUCTION AND COLOR REPRODUCTION MATERIALS.

ATTAGMALTAPage #0160



MATERIAL SAFE IT DATA SHEE For Printing links and Related Materials

REVISION DATE 2000/07/07

SECTION PRODUCT DENTIFICATION PRODUCT CLASS: Printing Ink, Oxidizing MANUFACTURER'S CODE PRODUCT NAME: M/C-T X/S Premium Process Magents 862442A SECTION MANUFACTURER MANUFACTURER'S NAME: MILLER COOPER COMPANY	Ø PE
SECTION I PRODUCT IDENTIFICATION PRODUCT CLASS: Printing Ink, Oxidizing MANUFACTURER'S CODE PRODUCT NAME: M/C-T X/S Premium Process Magenta 862442A SECTION II MANUFACTURER MANUFACTURER'S NAME: MILLER COOPER COMPANY	
PRODUCT CLASS: Printing Ink, Oxidizing MANUFACTURER'S CODE PRODUCT NAME: M/C-T X/S Premium Process Magenta 862442A SECTION II MANUFACTURER MANUFACTURER'S NAME: MILLER COOPER COMPANY	
SECTION II MANUFACTURER MANUFACTURER'S NAME: MILLER COOPER COMPANY	
MANUFACTURER'S NAME: MILLER COOPER COMPANY	
STREET ADDRESS: 1801 PROSPECT AVENUE CITY, STATE, ZIP CODE: KANSAS CITY, MO 84127 TELEPHONE NUMBER: (816) 483-5020	
SECTION III HAZARDOUS INGREDIENTS	
Ingredient cas # osha acgi #	# % (OFTION
Hydrotreated Light Distillate 64742-47-8 2400 mg/m3 (8 N/A N/A C.I. Pigment Red 57:1 5281-04-9 15 mg/m3 as d	
All ingredients in this product are on the TSCA Inventory List 40 CFR 710 Emergency Response Telephone (800) 289-6246 Ext. 600	
SECTION IV PHYSICAL DATA	
OILING RANGE VAPOR DENSITY VS AIR LIQUID DENSITY VS WATER PERCENT VOLATILE BY WE	IGHT
450 °F XX HEAVIER UGHTER HEAVIER XX LIGHTER ~10	
PPEARANCE ODOR EVAPORATION RATE VS BUTYL ACETATE Red Paste Oleoresinous XX SLOWER FASTER	
SECTION VEIRE & EXPLOSION DATA	
AMABILITY CLASSIFICATION FLASH POINT LEL	
or Not Regulated METHODCOC Not Explosive	e.
CTINGUISHING METHOD X. FOAM ALCOHOL FOAM XX CO2 XX DRY CHEMICAL XX WATER FOG OTH	166
NUSUAL FIRE AND EXPLOSION HAZARDS: 1. Isolate containers from heat and other sources of ignition 2. Dense smoke may be generated when burning 3. Firefighters should be equiped with self-contained breathing apparatus and turnout gear PECIAL FIREFIGHTING PROCEDURES:	
Keep container cool to prevent pressure build up due to extreme heat.	
SECTION VI HEALTH HAZARD DATA	
RIMARY ROUTE(S) OF ENTRY: INHALATION INGESTION	
1. Prolonged contact may cause skin irration 2. Eye contact may cause irritation 3. Excessive inhalation of vapors or mists may cause local irritation.	
irritation, pneumonia or central nervous system depression ARCINOGENICITY: N.T.P? No IARC MONOGRAPHS? No OSHA REGULATED? No	

ATTACHMENT & Page # of 60

NO. 459 P. 19/21
SECTION VI HEALTH HAZARD DATA — CONTINUE

EMERGENCY FIRST AID PROCEDURES:

1. SKIN CONTACT:

Wash affected area with soap and water

2. EYE CONTACT:

- 1. Flush eyes with copious amounts of water for at least fifteen minutes
- 2. Consult physician if irritation developes

3. INGESTION:

DO NOT INDUCE YOMITING: Dilute with 1-2 glasses of water Consult a physician

		SECTION VII REACTIVITY DATA	
PRODUCT STABILITY	XX STABLE	UNSTABLE HAZARDOUS POLYMERIZATION	MAY OCCUR XX WILL NOT OCCU
CONDITIONS TO AVOID: 51:	rong Oxidi	lzers	The second carried the second

SECTION VIII SPILL OR LEAK PROCEDURES

PROCEDURES WHEN MATERIAL IS SPILLED OR RELEASED:

- 1. Remove all sources of ignition
- 2. Wipe up or shovel material into an approved container
- 3. Wash spill area with soap and water

WASTE DISPOSAL METHODS:

Dispose of in accordance with local, state and federal regulations

SECTION IX PERSONAL PROTECTION INFORMATION

VENTILATION: Normal fresh air is usually sufficient . In confined areas provide one cubic foot per minute per square foot of area.

PROTECTIVE GLOVES: Recommended

RESPIRATORY EQUIPMENT Not needed if good ventilation is maintained EYE PROTECTION: Splash goggles are recommended during wash-up OTHER EQUIPMENT None

SECTION X SPECIAL PRECAUTIONS

HANDLING AND STORAGE:

A moderately cool, well ventilated area is adequate Labels should be visible

SECTION XI SARA TITLE III, SECTION 313, SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHTID-KNOW ACT OF 1986 AND OF 40 CFR 372;

CHEMICAL NAME	CAS NO.	% BY WEIGHT
Cobalt Compounds	7440-48-4	2. Ø
Manganese Compounds	7439-96 - 5	2. Ø

NOTE: THIS INFORMATION MUST BE INCLUDED IN ALL MATERIAL SAFETY DATA SHEETS THAT ARE COPIED AND DISTRIBUTED FOR THIS PRODUCT.

*PANTONE INC.'S CHECK STANDARD TRADEMARK FOR COLOR REPRODUCTION AND COLOR REPRODUCTION MATERIALS.

PAGE 2 OF 2 S8 ATTACHMENT LA Page Cof 60

MATERIAL SAFETY WATA SHEET For Printing inks and Related Materials

Distributors of Graphic Arts Supplies and Equipment							
		MATERIALS ID		RATING:	<u>H1</u>	<u> </u>	PYE
PRODUCT CLASS: Printing Ink, Oxidizin PRODUCT NAME: M/C-T X/S Premium Proc	a	CT IDENTIF	CATION	М	ANUFACTUI	RER'S CODE:	
SEC	TION II M	ANUFACTUI	25 P		8624	AEA	
MANUFACTURER							
	address: Zip code:	1801 PROSPE KANSAS CITY (816) 483-5020	/, MO 64127	•		•	
SECTION	III HAZAR	DOUS INGR					t to to a
INGREDIENT			CAS#		OSHA PEL	ACGI #	(OPTIONA
Hydrotreated Light Distillate Vegetable Oils C.I. Pigment Yellow 12		N/	1742-47 <i>-</i> ′A 858-85- <i>∈</i>	N	/ A	3 es du /m3 (8	
All ingredients in this product 40 CFR 710 Emergency Response Tele	phone	(800) 2	89-6246				
	TION IV PH	IYSICAL DA	ТД				
BOILING RANGE VAPOR DENSITY VS AIR		ENSITY VS WA	_	PEF	ICENT VOLA	ITILE BY WEIGH	4T
450 °F X HEAVIER LIGHTER		XX PAIVA	LIGHTER	TATE	~	10	
Yellow Paste Oleoresinous	S XX	LOWER	FASTER	MIC			
SECTION FLAMABILITY CLASSIFICATION	FLASH POI	EXPLOSION	DATA :				
OSHA: III-B DOT Not Regulated	265	•F	•	LEL.	nt Eun	losive	
EXTINGUISHING METHOD						*087.4E	
[ORY CHEM	IICAL	(Xk	WATER FOO)	OTHER	Ι.
UNUSUAL FIRE AND EXPLOSION HAZARDS: 1. Isolate containers from heat 2. Dense smoke may be generated 3. Firefighters should be equip breathing apparatus and turnout SPECIAL FIREFIGHTING PROCEDURES:	when ded wit	burning			tion.		
Keep container cool to prevent due to extreme heat.							
	VI HEALT	HAZARD	DATA				
PRIMARY ROUTE(S) OF ENTRY: INHALATIC		3 XX	KIN			NGESTION	
1. Prolonged contact may cause : 2. Eye contact may cause irrita 3. Excessive inhalation of vapo: irritation, pneumonia or central carcinogenicity. NIP? No HARC MONOGRAPHS?	tion rs or m l nervo	niata me	em depr	e loca ressio	l n		
ATTAC	PAGE 1 OF	b Pages	59 Ecof 60		· Virginiai		

JUL.12.2000 7:33AM ROS MANUFACTURES CODE NO. 862443A ROSSE LITHOGRAPHING

NO.459 P.21/21 SECTION VI HEALTH HAZARD DATA — CONTINUI

EMERGENCY FIRST AID PROCEDURES:

1, SKIN CONTACT:

Wash affected area with scap and water

2. EYE CONTACT:

- 1. Flush eyes with copious amounts of water for at least fifteen minutes
- 2. Consult physician if irritation developes

3. INGESTION:

DO NOT INDUCE VOMITING! Dilute with 1-2 glasses of water Consult a physician

SECTION VII REACTIVITY DATA

PRODUCT STABILITY

LYY STABLE

UNSTABLE HAZARDOUS POLYMERIZATION

MAY OCCUR XX WILL NOT OCCU

CONDITIONS TO AVOID: Strong Oxidizers

SECTION VIII SPILL OR LEAK PROCEDURES

PROCEDURES WHEN MATERIAL IS SPILLED OR RELEASED:

- 1. Remove all sources of ignition
- 2. Wipe up or shovel material into an approved container
- 3. Wash spill area with scap and water

WASTE DISPOSAL METHODS:

Dispose of in accordance with local, state and federal regulations

SECTION IX PERSONAL PROTECTION INFORMATION

VENTRIATION: Normal fresh air is usually sufficient . In confined areas provide one cubic foot per minute per square foot of erea.

PROTECTIVE GLOVES: Recommended

RESPIRATORY EQUIPMENT: Not needed if good ventilation is maintained EYEPROTECTION: Splash goggles are recommended during wash-up OTHER EQUIPMENT None

SECTION X SPECIAL PRECAUTIONS

HANDLING AND STORAGE:

A moderately cool, well ventilated area is adequate Labels should be visible

SECTION XI SARA TITLE III, SECTION 313, SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHTID-KNOW ACT OF 1986 AND OF 40 CFR 372:

CHEMICAL NAME

CAS NO.

% BY WEIGHT

Cobalt Compounds Manganese Compounds

7440-48-4

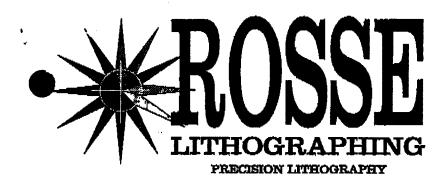
2.0

7439-96-5

2.0

OTE: THIS INFORMATION MUST BE INCLUDED IN ALL MATERIAL SAFETY DATA SHEETS THAT ARE COPIED AND DISTRIBUTED FOR THIS PRODUCT.

*PANTONE INC.'S CHECK STANDARD TRADEMARK FOR COLOR REPRODUCTION AND COLOR REPRODUCTION MATERIALS.





Facsimilie Transmission Cover Sheet

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ATTACHMENT 13 Page 10 - 3 Page 10 Page

ALMA,

ATTACHED IS A COPY OF OUR SILVER RECOVERY STUFF.

OUR WASTE STREAMS ARE DEALT WITH ETTHER FUEL BLEND OR LAND FILL. MOSTLY FUEL BLEND BE CAUSE OF THE HIGH BTO VALUE.

AFTER QUR MEETING WITH MIE-MO THE
TERM "WATER BASED COOLANT / AQUEAS COATING"
HAS BEEN CHANGED TO READ AQUEAS COATING ONLY.
THIS WILL BE REFLECTED ON CODE # C3066-06

THE CODES C3066-01 & C3066-07 WERE FOR IDENTICAL ITEMS. WE HAVE DISCUSSED WITH MIE-MO THE DISCONTINUING USE OF C3066-07.

GIRARD COMPLETE SILVER RECOVERY

PRECIOUS METAL BUYERS • 3744 N.E. Woodland Court • Lee's Summit, MO 64064 • (816) 350-3771

Frank Girard

C/o Rosse Lithographing 2100 Wyandatte Kansas city, mo. July 11, 2000 Girard Silver Recovery 10501 G. Bannister Rd Kansas city, mo. 64134

attn: Mike Smelly

Mar Mike,

done the silver waste product and low the product in handled. The film and silver flake will be sent to Central state Refinire, in Versailed, mo.

Africa is Glenno Son sorry but I don't know the last name. The telegrame number is 1-573-378-5778.

ear he of my help, flease feel free to contact me.

sincerely,

MATERIAL SAFETY DATA SHEET

THOMPSON CHEMICALS & SOLVENTS

P. O. Box 7167 St. Joseph, MO 64507

1816) 991-2426 KCDirect Line (816)279-2110

*** 24-Hour Emergency Telephone: 1-800-424-9300 ***

Prepared: 02/24/99

Page 1

#04855 BLANKET WASH

Same a VWM Wesh by Vorh munication Standard) Products

This MSDS complies with 29 CFR 1910.1200 (The Hazard Communication Standard)

SECTION I - PRODUCT IDENTIFICATION

General or Generic ID: Cleaning Solvent, Proprietary

HMIS Information: Health - 1

Flammability - 2

Reactivity - 0

Personal Protective Equipment - B

4 = Severe

3 = Serious

2 = Moderate

1 = Slight

0 = Least

B = Safety Glasses & Gloves

SECTION II - COMPONENTS

If present, IARC, NTP and OSHA Carcinogens and Chemicals Subject To The Reporting Requirements of SARA Title III Section 313 Are Identified In This Section.

Ingredient Aromatic Petroleum Distillates	<u> فالمعل</u>	Percent > 9	PEL 100 PPM	TLV Not Established	NOTE
CAS #: 64742-95-6	105-4705		10011111	1 vot Established	
Aliphatic Hydrocarbons CAS #: 6474248-9	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	> 9	300 PPM	300 PPM	•

THOMPSON CHEMICALS & SOLVENTS

Continued on Page 2

MATERIAL SAFETY DATA SHEET

24-Hour Emergency Telephone 1-800-424-9300

#04855 BLANKET WASH

Page 2

,	SECTION	III - PHYSICAI	DATA	
Boiling Point	for Product	(308.00 - 153.33 -	335.00 Deg F 168.33 Deg C
Vapor Pressure	for Product			760.00 mm HG
	AND I I WALLOT	,	@	3.00 mm Hg 68.00 Deg F
Specific Vapor Density	Air = 1			20.00 Deg C) 4.15
Specific Gravity	,		@	.876 60.00 Deg F
Percent Volatiles				15.55 Deg C) 100.00%
Evaporation Rate Appearance	(Ether = 1)		Clear	25,00 Saybolt Color 21 Min
State Form			Liquio	
			Neat	

SECTION IV - FIRE AND EXPLOSION INFORMATION

Flash Point (TCC)

100.0 - 120.0 Deg F

(37.8 - 48.9 Deg C)

Explosive Limit (Product)

Lower - 1.0%

Upper -7.0%

Extinguishing Media: Regular Foam or Carbon Dioxide or Dry Chemical

Hazardous Decomposition Products: May form toxic materials: Carbon Dioxide and Carbon Monoxide, various Hydrocarbons, etc. Firefighting Procedures: Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode when fighting fires.

Special Fire & Explosion Hazards: Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

All five gallon pails and larger metal containers including tank cars and tank trucks should be grounded and/or bonded when material is transferred.

Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition sources at locations distant from material handling point.

THOMPSON CHEMICALS & SOLVENTS

Continued on Page 3

*** 24-Hour Emergency Telephone 1-800-424-9300 ***

#04855 BLANKET WASH

Page 3

SECTION V - HEALTH HAZARD DATA

Permissible Exposure Level See Section II

100 PPM

Effects of Acute Overexposure:

Eyes - Exposure may cause mild eye irritation. Symptoms may include stinging, tearing and redness.

Skin - Exposure may cause mild skin irritation. Prolonged or repeated exposure may dry the skin. Symptoms may include redness, burning, drying and cracking, skin burns, and skin damage. Pre-existing skin disorders may be aggravated by exposure to this material.

Skin absorption is possible, but harmful effects are not expected from this route of exposure under normal conditions of handling and use.

Breathing - Exposure to vapor or mist is possible.

Short-term inhalation toxicity is low. Breathing small amounts during normal handling is not likely to cause harmful effects; breathing large amounts may be harmful.

Symptoms are more typically seen at air concentrations exceeding the recommended exposure limits. Symptoms of exposure may include:

- Irritation (nose, throat, respiratory tract) Pre-existing lung disorders, e.g. asthma-like conditions, may be aggravated by exposure to this material.
- Respiratory depression -
- Central Nervous System depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness) Swallowing Single dose oral toxicity is low. Swallowing small amounts during normal handling is not likely to cause harmful effects; swallowing large amounts may be harmful.
 Symptoms may include:
 - Gastrointestinal irritation (nausea, vomiting, diarrhea) -
 - Respiratory depression -
- Central Nervous System depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness) This material can enter the lungs during swallowing or vomiting and cause lung inflammation and/or damage.

First Aid:

If on Skin: Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek medical attention. Launder clothing before reuse.

If in Eyes: If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.

If Swallowed: Do not induce vomiting. This material is an aspiration hazard. If individual is drowsy or unconscious, place on left side with the head down. Seek medical attention. If possible, do not leave individual unattended.

If Breathed: If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention. Keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

THOMPSON CHEMICALS & SOLVENTS

Continued on Page 4

*** 24-Hour Emergency Telephone 1-800-424-9300 ***

#04855 BLANKET WASH

Page 4

SECTION V - HEALTH HAZARD DATA (CONTINUED)

Primary Route(s) of Entry:

Inhalation, skin contact, eye contact

Effects Of Chronic Overexposure:

This material (or a component) has been shown to cause to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain.

Based on the available information, this material cannot be classified with regard to carcinogenicity.

This material is not listed as a carcinogen by IARC, NTP or OSHA.

Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals and may aggravate pre-existing disorders of these organs in humans: Mild, reversible liver effects, mild, reversible kidney effects, blood abnormalities, cataracts.

SECTION VI - REACTIVITY DATA

Hazardous Polymerization: Cannot occur

Stability: Stable

Incompatibility: Avoid contact with: Strong oxidizing agents

SECTION VII - SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled:

Small Spill: Absorb liquid on vermiculite, floor absorbent or other absorbent material.

Large Spill: Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source. Prevent from entering drains, sewers, streams or other bodies of water. Prevent from spreading. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal.

Prevent run-off to sewers, streams or bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred.

THOMPSON CHEMICALS & SOLVENTS

Continued on Page 5

*** 24-Hour Emergency Telephone 1-800-424-9300 ***

#04855 BLANKET WASH

Page 5

SECTION VII - SPILL OR LEAK PROCEDURES (CONTINUED)

Waste Disposal Method:

Small Spill: Dispose of in accordance with all Local, State and Federal regulations.

Large Spill: Dispose of in accordance with all applicable Local, State and Federal regulations.

SECTION VIII - PROTECTIVE EQUIPMENT TO BE USED

Respiratory Protection: If workplace exposure limit(s) of product or any component is exceeded (see Section II), a NIOSH\MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.

Ventilation: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(S).

Protective Gloves: Wear resistant gloves (consult your safety equipment supplier).

Eye Protection: Chemical splash goggles in compliance with OSHA regulations are advised, however, OSHA regulations also permit other type safety glasses. Consult your safety representative.

Other Protective Equipment: To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

SECTION IX - SPECIAL PRECAUTIONS OR OTHER COMMENTS

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in this datasheet must be observed.

WARNING!!! Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure or sudden ingress of air into vacuum equipment may result in ignitions without the presence of obvious ignition sources. Published "autoignition" or "ignition" temperature values cannot be treated as safe operating temperatures in chemical processes without analysis of the actual process conditions. Any use of this product in elevated temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions.

Hydrocarbon solvents are basically non-conductors of electricity and can become electrostatically charged during mixing, filtering or pumping at high flow rates. If this charge reaches a sufficiently high level, sparks can form that may ignite the vapors of flammable liquids.

This information is furnished without warranty, representation, inducement or license of any kind, except that it is accurate to the best of Thompson Chemicals & Solvents knowledge, or obtained from sources believed by Thompson Chemicals & Solvents to be accurate, and Thompson Chemicals & Solvents does not assume any legal responsibility for use or reliance upon same. Customers are encouraged to conduct their own tests. Before using any product, read its label.

THOMPSON CHEMICALS & SOLVENTS

Last Page

DATE PREPARED: 1/01/98

Plate making weste, on rug.

PAGE: 1 Only weich &

wyse of parts
from plates.

ANCHOR LITHKEMKO 50 INDUSTRIAL LOOP NORTH DRANGE PARK, FL 32073

MEDICAL EMERGENCY PHONE NUMBER * (904) 264-3500 * THIS NUMBER IS AVAILABLE DAYS, NIGHTS, WEEKENDS, AND HOLIDAYS.
TRANSPORTATION EMERGENCY PHONE NUMBER * (800) 424-9300 * CHEMTREC.

THIS MSDS COMPLIES WITH 29 CFR 1910-1200, HAZARD COMMUNICATION STANDARD. FEDERAL LAW REQUIRES PERSONS RECEIVING THE MATERIAL SAFETY DATA SHEET TO STUDY IT CAREFULLY, BECOME AWARE OF HAZARDS, IF ANY, OF THE PRODUCT INVOLVED. IN THE INTEREST OF SAFETY YOU SHOULD: (1) NOTIFY YOUR EMPLOYEES, AGENTS, AND CONTRACTORS OF THE INFORMATION ON THIS SHEET; (2) FURNISH A COPY TO EACH OF YOUR CUSTOMERS FOR THE PRODUCT; AND (3) REQUEST YOUR CUSTOMERS TO INFORM THEIR EMPLOYEES AND CUSTOMERS AS WELL.

FOR INDUSTRIAL USE ONLY

USE ONLY AS DIRECTED

DO NOT TAKE INTERNALLY

SECTION I PRODUCT IDENTIFICATION

PRODUCT NAME: FILM KLEEN

PRODUCT NUMBER: 7065

DOT PROPER SHIPPING NAME: FLAMMABLE LIQUID, N.O.S. (HEXAME, ISDPROPANOL)

PACKING GROUP II DOT NUMBER: 1811993

DATE OF LAST MODE CHYPHIST

DATE OF LAST MSDS SHIPMENT: N/A MSDS PREPARED BY: L.H.ANDERSON

HMIS INFORMATION:

HEALTH - 2

FLAMMABILITY - 3

REACTIVITY - 0

PERSONAL PROTECTIVE EQUIPMENT - B

THAZARD INDEX: 4 = SEVERE T3 = SERIOUS 2 = MODERATE 1 = SLIGHT 0 = LEAST SAFETY GLASSES & GLOVES

	SECTION II	HAZARDOUS	INGREDIENTS	•	
MATERIAL DESCRIPTION	CAS#	% BY WT.	ACGIH TLY(TWA) PPM	OSHA PEL PPH	OTHER LIMITS
HEXANE	/110-54-3 /	/ 87.22	/ 50.00/		(PEL IS THA)
ISOPROPYL ALCOHOL (SYN+: IPA, ISOPROPANGL	/ /67 - 63-0	/ / 5-15	/ 400.00/	/5	STEL = 1000 PPN

la gal = 5.7 lbs/gal x 21 gals used = 119.70 Vocused

PAGE

2

FILM KLEEN

THIS PRODUCT DOES NOT CONTAIN ANY CARCINOGENS OR SUSPECTED CARCINOGENS WHICH ARE NOTED BY NTP, TARC OR OSHA-Z IN THE OTHER LIMITS COLUMN.

SECTION III PHYSICAL DATA

BOILING RANGE: HIGH- 180.0 F . LOH- 149.0 F

VAPOR PRESSURE: 127.40 MMHG 368 F

YAPOR DENSITY: HEAVIER THAN AIR

EVAPORATION RATE: FASTER THAN BUTYL ACETATE

WEIGHT LBS./GAL.: 5.7

METHOD Z4 VOC: 5.7 LBS./GAL.

PHYSICAL STATE: LIQUID

APPEARANCE: CLEAR, COLDRLESS

ODOR: SOLVENT

PH= N/A

WATER SOLUBILITY: OF

CALIFORNIA SCARMO RULE 102: NOMPHOTOCHEMICALLY REACTIVE

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: CLASS IB ACTUAL FLASHPOINT TCC: 10.0 F.

DOT: FLANMABLE LIQUIS

EXTINGUISHING MEDIA: USE WATER SPRAY, FOAM, CO2, OR DRY CHEMICAL FIRE FIGHTING APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARDS: KEEP WORK AREAS FREE OF HOT METAL SURFACES AND OTHER SOURCES OF IGNITION.

FIRE FIGHTING PROCEDURES: FIRE FIGHTERS SHOULD WEAR SELF-CONTAINED BREATH-ING APPARATUS AND FULL PROTECTIVE CLOTHING. USE HATER SPRAY TO COOL NEARBY -CONTAINERS AND STRUCTURES EXPOSED TO FIRE.

PAGE

3

FILM KLEEN

SECTION V EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: GENTLY FLUSH WITH LARGE QUANTITIES OF WATER FOR AT LEAST 15 MINUTES AND SEEK MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT: REMOVE CONTAMINATED CLOTHING (WASH BEFORE RE-USE), WASH AFFECTED SKIN AREAS WITH 30AP AND WATER, AND SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.

INHALATION: IF BREATHING DIFFICULTIES, DIZZINESS OR LIGHT-HEADEDNESS OCCUR WHEN WORKING IN AREAS WITH HIGH VAPOR CONCENTRATIONS, VICTIM SHOULD SEEK FRESH AIR. IF BREATHING STOPS, GIVE ARTIFICIAL RESPIRATION AND SEEK IMMEDIATE MEDICAL ATTENTION.

INGESTION: DO NOT INDUCE VOMITING; SEEK MEDICAL ATTENTION INHEDIATELY.

SECTION VI HEALTH INFORMATION, ACUTE AND CHRONIC

EYES: DIRECT CONTACT WILL CAUSE BURNING, TEARING AND REDNESS.

SKIN EFFECTS: PROLONGED OR REPEATED SKIN CONTACT CAN CAUSE MODERATE IRRITATION, DEFATTING, AND/OR DERMATITIS.

INHALATION: PROLONGED OR REPEATED BREATHING OF VERY HIGH YAPOR CONCENTRA-TIONS MAY CAUSE HEADACHES, NAUSEA AND VONITING. CHRONIC OVEREXPOSURE IN HIGH CONCENTRATIONS MAY PRODUCE CNS DEPRESSION.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: NONE KNOWN.

PRIMARY ROUTES OF ENTRY: INHALATION.

SYSTEMIC AND OTHER EFFECTS: CHRONIC OVEREXPOSURE TO HEXAME HAS BEEN FOUND TO CAUSE PERIPHERAL NERVE TISSUE DAMAGE RESULTING IN MUSCULAR WEAKNESS AND LOSS OF SENSATION IN THE EXTREMITIES. CHRONIC OVEREXPOSURE TO IPA HAS CAUSED LIVER ABNORMALITIES, AND KIDNEY AND BRAIN DAMAGE IN LABORATORY ANIMALS.

PAGE

FILM KLEEN

SECTION VII REACTIVITY DATA

STABILITY: STABLE.

CONDITIONS TO AVOID: EXTREME HEAT, SPARKS AND OPEN FLAMES.

MATERIALS TO AVOID: STRONG UNIDIZING AGENTS, STRONG ACIDS OR BASES.

HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION IN THE PRESENCE OF AIR MAY YIELD CARBON MONDXIDE AND/OR CARBON DIDXIDE.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

CONDITIONS TO AVOID: NA

SECTION VIII SPILL OR LEAK PROCEDURES

PRECAUTIONS IN CASE OF RELEASE OR SPILL: STAY UPWIND AND AWAY FROM SPILL UNLESS WEARING APPROPRIATE PROTECTIVE EQUIPMENT. STOP AND/OR CONTAIN DISCHARGE IF IT MAY BE DONE SAFELY. KEEP ALL SOURCES OF IGNITION AWAY; USE NON-SPARKING TOOLS FOR CLEANUP. VENTILATE AREA OF SPILL AND COVER WITH INERT MATERIAL TO REDUCE FUMES. KEEP OUT OF DRAINS, SEMERS OR WATERWAYS. CONTACT FIRE AUTHORITIES, NOTIFY LOCAL HEALTH AND POLLUTION CONTROL AGENCIES, AND CALL SPILL RESPONSE TEAMS IF LARGE SPILL.

WASTE DISPOSAL METHOD: DISPOSE OF PRODUCT IN ACCORDANCE WITH APPLICABLE LOCAL, COUNTY, STATE, FEDERAL REGULATIONS.

SECTION IX PERSONAL PROTECTION AND STORAGE PRECAUTIONS

RESPIRATORY PROTECTION: THE USE OF RESPIRATORY PROTECTION DEPENDS ON VAPOR CONCENTRATIONS ABOVE THE TIME-WEIGHTED TLV. USE A RESPIRATOR/GAS MASK WITH APPROPRIATE CARTRIDGES OR CANISTER (NIOSH APPROVED, IF AVAILABLE), OR SUPPLIED AIR EQUIPMENT, DEPENDING ON AIRBORNE CONCENTRATION.

PROTECTIVE GLOVES: THE USE OF GLOVES WHICH ARE IMPERMEABLE TO THE SPECIFIC MATERIAL HANDLED IS ADVISED TO PREVENT IRRITATION.

EYE PROTECTION: SAFETY GLASSES ARE RECOMMENDED TO SAFEGUARD AGAINST POTENTIAL EYE CONTACT, IRRITATION OR INJURY.

OTHER PROTECTIVE EQUIPMENT: THE AVAILABILITY OF EYE WASHES AND SAFETY SHOWERS IN WORK AREAS IS RECOMMENDED.

HANLDING AND STORAGE PRECAUTIONS: KEEP PRODUCT CONTAINERS COOL, DRY AND SWAY FROM SOURCES OF IGNITION. USE AND STORE THIS PRODUCT WITH ADEQUATE VENTILATION. KEEP PRODUCT CONTAINERS CLOSED WHEN NOT IN USE.

STHER PRECAUTIONS: PERSONNEL SHOULD AVOID INHALATION OF VAPORS. PERSONAL CONTACT WITH THE PRODUCT SHOULD BE AVOIDED. CONTAINERS, EVEN THOSE THAT HAVE BEEN EMPTIED, MAY RETAIN PRODUCT RESIDUES AND/OR VAPORS. OBSERVE ALL HAZARD PRECAUTIONS GIVEN IN THIS DATA SHEET. VAPORS OF THIS PRODUCT ARE HEAVIER THAN AIR AND WILL COLLECT IN LOW PLACES.

PAGE

FILM KLEEN

-SECTION X SECTION 313 TOXIC CHEMICALS

FOLLOWING IS A DESCRIPTION OF CERTAIN HYDROCARBON SOLVENTS WHICH CONTAIN COMPONENTS SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III, SECTION 313 — 40 GFR 372 (CHECK SECTION II INGREDIENTS AND LIST BELON TO DETERMINE IF ANY OF THESE APPLY TO THIS PRODUCT):

AROMATIC 100 MAY CONTAIN UP TO 7% BY WEIGHT XYLENE (CAS#1330-20-7), UP TO 21% BY WEIGHT 1,2,4-TRIMETHYLBENZENE (CAS#95-63-6), AND UP TO 3% BY WEIGHT CUMENE (CAS#98-82-8).

AROMATIC 150 MAY CONTAIN UP TO 2% BY WEIGHT 1,2,4-TRIMETHYLBENZENE (CAS#95-63-6) AND UP TO 10% BY WEIGHT NAPHTHALENE (CAS#91-20-3).

SOLVENT D MAY CONTAIN UP TO 3.5% BY WEIGHT XYLENE (CAS#1330-20-7), UP TO 1% BY NEIGHT NAPHTHALENE (CAS#91-20-3), 15.4% TO 18.9% BY WEIGHT 1,2,4-TRIMETHYLBENZENE (CAS#95-63-6), AND UP TO 2.6% BY WEIGHT CUMENE (CAS#98-B2-8).

THIS PRODUCT CONTAINS THE FOLLOWING CHEMICALS AND/OR HYDROCARBON SOLVENTS WITH COMPONENTS WHICH ARE SUBJECT TO SARA 313 REQUIREMENTS:

HEXANE

110-54-3

87.22

THE OPINIONS EXPRESSED HEREIN ARE THOSE OF QUALIFIED EXPERTS WITHIN THE MANUFACTURER AND ITS SUPPLIERS. WE BELIEVE THAT THE INFORMATION CONTAINED HEREIN IS CURRENT AS OF THE DATE OF THIS HATERIAL SAFETY DATA SHEET. SINCE THE USE OF THIS INFORMATION AND THESE OPINIONS AND THE CONDITIONS OF USE OF THE PRODUCT ARE NOT WITHIN THE CONTROL OF THE MANUFACTURER, IT IS THE USER'S OBLIGATION TO DETERMINE THE CONDITIONS OF SAFE USE OF THE PRODUCT.

SPECIAL CALIFORNIA PROPOSITION 65 HARNINGS

THE FOLLOWING INFORMATION IS REQUIRED BY THE STATE OF CALIFORNIA'S SAFE DRINKING MATER AND TOXIC ENFORCEMENT ACT OF 1986, OR PROPOSITION 65. THIS CALIFORNIA REGULATION DOES NOT ADDRESS DI MINIMUS LEVELS: THEREFORE, EVEN TRACE AMOUNTS OF THE CHEMICALS INCLUDED ON PROPOSITION 65'S LIST OF CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER OR REPRODUCTIVE TOXICITY MUST BE NOTED WITH THE "SAFE HARBOR" WORDING. WARNING: IF THIS PRODUCT CONTAINS AROMATIC 100 OR LACOLENE—CHECK THE INGREDIENTS LISTED IN SECTION II OF THIS MSDS—THESE CHEMICALS CONTAIN BOTH BENZENE, KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, AND TOLUENE, KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. IF THIS PRODUCT CONTAINS VMEP NAPHTHA—CHECK THE INGREDIENTS LISTED IN SECTION II OF THIS MSDS—VMEP NAPHTHA—CHECK THE INGREDIENTS LISTED IN SECTION II OF THIS MSDS—VMEP NAPHTHA CONTAINS BENZENE, KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

ATTROUGHT MOSSIO - KR

Reller Cleaner raggisty.

PRODUCT MAME: COLOR WASH STEP-1

PRODUCT CODE: B010031

MMIS CODES: H F R

MANUFACTURER'S MAME: VARN PRODUCTS

ADDRESS: 905 SOUTH WESTWOOD, ADDISON, ILLINOIS 60101

EMERGENCY PROME: (800) 424-9300 DATE REVISED : 09-04-96 INFORMATION PRONE: (800) 336-8276 NAME OF PREPARER : VARN PRODUCTS CO.

REASON REVISED : UPDATE; SUPERSEDES ALL PREVIOUS REVISONS.

======== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION =========

OCCUPATIONÁL EXPOSURE LINITS WAPOR PRESSURE WRIGHT ing the sq f temp specially CAS MUNCHER OSEA PEL ACGIT TLV OTHER ... " PERMITTED BAPATER 64742-47-0 100 ppm 100 ppm 100 ppm PETROLEUM NAPHTHA 64742-94-5 W/E W/E 100 pps 0.9 682 10 10

*** No toxic chesical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present. *** 70% Total ALL INSPEDITARIS LISTED IN INC INA INC. INVENTORY. ALL INGREDIENTS LISTED IN THE EFA TSCA INVENTORY.

la gal = 4.96 VOC x gal used (60 gal) = 297.6 VOC used

Control of the Control

------- Section III - Physical/Chenical Characteristics

SPECIFIC GRAVITY (H20=1): 0.9 EVAPORATION RATE: SLOWER THAN ETHER 369 to 386 Deg F BOILING RANGE: VAPOR DENSITY: HEAVIER THAN AIR

MATERIAL V.O.C.: 4.96 LB/GL (595 G/L)

SOLUBILITY IN WATER: EMULSIBLE VAPOR PRESSURE: 0.20 mmHg @20 Deg C APPEARANCE AND ODOR: LIGHT STRAW COLOR, VISCOUS LIQUID - MILD PETROLEUM ODOR

FLASH POINT: 200 Deg F METHOD USED: TAG CC FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 1.0% UPPER: 11.7%

EXTINGUISHING MEDIA: FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL

SPECIAL FIREFIGHTING PROCEDURES

AS IN MAY FIRE, WEAR SPLY-COMPAINED EMERGRANG APPARATUS (HSEN/BIOSE APPROVED) AND PULL PROTECTIVE CEAR. WATER MAY NOT AN APPROTIVE TO EXTENSUES FIRE. USE WATER STRAY TO COOL PIRE EXPOSED CONTAINERS AND TO PROTECT PERSONNEL.

UNUSUAL FIRE AND EXPLOSION HAZARDS TREAT AS DETROLPUN PIRE.

SECTION V - REACTIVITY DATA

STABILITY: STABLE CONDITIONS TO AVOID

ANOTH PECESS BEAT AND SOURCES OF ISSUEDION.

DECOMPATIBILITY (MATERIALS TO AVOID) White with the original street of the without white

HAZARDOUS DECOMPOSITION OR BYPRODUCTS AUREING WILL PRODUCE OXIDES OF CARBON AND DESIRE SHORE.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

INPALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

RICH VAPOR CONCENTRATIONS ARE IRRITATIVE TO THE MOSE, THROAT, AND LONGS. SIGHS OF MERVEUS SYSTEM DEPRESATION SUCE AS DISTURES, DROMETHESS, EXADACRE AND NAUGEA HAY BE EXPERIENCED WITH OVEREXPOSURE.

Skin and eye contact health risks and symptoms of exposure SETH AND BYE CONTACT WAY PRODUCE HOBERATE TRETTATION.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EIPOSURE . A SIMULA, PROLONCED EXPOSURE IS NOT LIXELY TO RESULT IN THE HATCHILD SQUE ASSORBED TRACKED FOR SKIN IN EARHFUL AMOUNTS.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE INVESTIGA NAY PRODUCE GASIRO-INTESTINAL INGITATION, TOLLOW FIRST AID DESCRIPTION.

HEALTH HAZARDS (ACUTE AND CHRONIC)

REFERIED ON ADDITYM BERATTING OF CONCENTRATED VAPORE MAY REFECT POLNOMARY, CARDIOVASCULAR, AND CENTRAL MERVOUS SYSTEM. REPEATED SEIN CONTACT WILL DAY OUT AND CRACE SELM. ASPIRATION BALARD IT SUBLICATO, ASPIRATION OF HATERIAL THIS THE KINGS CAN CAUSE CERRICAL PREDMONISTS.

CARCINOGENICITY: NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? NO THIS DRODUCT CONTAINS NO RHOUSE CARCINOCENE.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE SELE CONTACT MAY AGGRAVATE PRE-EXISTING DERMAZITIE.

EMERGENCY AND FIRST AID PROCEDURES

etes: Hold eyelid open and fluse with water for 15 minutes. Compact a revolctan if indication persists. SXIV: MASE FITE SOAP AND WATER.

impertion: do not induce vontring. If vontring occurs spontaneously, keep field below rips to prevent application of LIQUID INTO THE LUNCE. SEER MEDICAL ATTENTION INOCOLATELY.

IMPALATION: MOVE TO PRESE AIR. GIVE OXIGEN IF BREATHING IS LABORED.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

TEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

NOW! LINGUAGE ALL LOGIZZON 2008GES. CLEAN BY SHALL SPILLS WITE SOAP, WATER, AND A MOP. LARGE SPILLS ABOUT ME DIKED AND The. The properties the street. Some up with absorbent or transfer liquid into a glosed container for later disposal.

THE PROOF, IS SEPTIME, MINISTER WAS THE MANAGES OF THE PROOF. DISPOSAL INCLUDE RECLARATION AND PURL MEMBERS. CONTACT A LICENSED MARINE MANUEL FOR MORE INTORNATION.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

COMPAINTES EMOVED BE GROWNDED REPORT TRANSFERRANG TELS PRODUCT. STORE IN THE OCCUPANT CLOSED COMPAINES ANNY FROM SUMINGE, RICESS MEAT, SPARES, PLACES AND OTHER SOURCES OF IGNIFICAL AVOID SEIN CONTACT. MYOLD REPORTING VARIANCE, WHEN TRANSFERENCE OR DEING THIS PRODUCT, WEAR PROPER PERSONAL PROTECTIVE EQUIPMENT.

OTER PRECAUTIONS

DOT PROPER PARTY COMMITTALE LIGHT N.O.S. (MARTEN), SALARD CLASS: COMMITTALE LIGHTS, OF PRIMERS MAJESO, SACKING GROUP: IZI

PRODUCT IN CLASEED AS AN OSEA CLASS II CONSUSTIBLE LIQUID.

RESPIRATORY PROTECTION

THE OSE OF RESPIRATORY PROTECTION IS ADVISED WHEN CONCENTRATIONS EXCEED THE ESTABLISHED EXPOSURE LIMITS IN SECTION II. PROPERTIES OF THE AIRCRUPE CONCENTRATION, USE A RESPIRATOR VITE APPROPRIATE ORGANIC VAPOR CHATRIPUSS (MIGGE APPROVED).

VENTILATION

19 CONNENT VENTILATION PRACTICES ARE NOT ADEQUAIT TO MAINTAIN AIRBORNE CONCENTRATIONS BELOW THE ESTABLISHED EXPOSURE LINES IN SECTION II, ADDITIONAL GENERAL VENTULATION OR LOCAL EXHAUST SYSTEM IS REQUIRED.

PROTECTIVE GLOVES

NEAR SOLVENT RESISTANT GLOVES HADE OF KURRILL OR BUTTL RUBBER.

BYE PROTECTION

WEAR SAFETY GLASSES WITH SIDE SEITLOS.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

A PERSONAL PROTECTIVE RATING OF X MEANS YOU HOME SEE YOUR SUPERVISOR FOR GUIDANCE. GENA REGULATIONS (SECTR PARE 1918, Supplet 1) require exployers to evaluate presonal protective equipment requirements in the worthlace.

WORK/HYGIENIC PRACTICES

MASS WITH SOAP AND MATER AFTER PRODUCT CONTACT WITH SKIN.

DISCLAIMER

THE INFORMATION OF THIS MADE IS RELIEVED TO BE ACCURATE AS OF THE DATE SHOWN IN SECTION I. SINCE THE USE OF THIS PARCOCT IS NOT DECIR THE CONTROL OF VARM, IT IS THE DESK'S RESPONSIBILITY TO DETERMINE WHAT CONSTITUTES SAFE DEAGH FOR A PARTICULAR PRODUCT. THIS FORM MAY HE REPRODUCED IN QUARTITIES MECHESARY TO MEET YOUR REQUIREMENTS.



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(614) 790-3335 hew#

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LACOLENE SUPER

Page:

THIS MSDS COMPLIES WITH 29 CFR 1910.1200 (THE HAZARD COMMUNICATION STANDARD)

LACOLENE SUPER 64742-89-8 Product Name: CAS NUMBER:

ROSSE LITHOGRAPHING CO INC 2100 WYANDOTTE KANSAS CITY MO 64

MO 64108

05 50 015 7638600-

Data Sheet No: 0000597-004.000 Prepared: 09/28/94 Supersedes: 05/06/94 Print Date: 01/14/95

PRODUCT: 3002860

PRODUCT: 3002860
INVOICE: 080806
INVOICE DATE: 01/06/95
TO: ROSSE LITHOGRAPHING CO INC
2100 WYANDOTTE
MO 641

KANSAS CITY MO 64108

ATTN: PLANT MGR./SAFETY DIR.

SECTION 1-PRODUCT IDENTIFICATION

General or Generic ID: ALIPHATIC HYDROCARBON DOT Hazard Classification: 3 (FLAMMABLE LIQUID)

SECTION 11 - COMPONENTS

IF PRESENT, IARC, NTP AND OSHA CARCINOGENS AND CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III SECTION 313 ARE IDENTIFIED IN THIS SECTION.

SEE DEFINITION PAGE FOR CLARIFICATION

INGREDIENT

Percent

PEL

TLV

Note

ALIPHATIC PETROLEUM DISTILLATES CAS #: 64742-89-8

100 400 PPM (1)

Notes:

(1) NIOSH RECOMMENDS A LIMIT OF 350 MG/CUM - 8 HOUR TIME WEIGHTED AVERAGE, 1800 MG/CUM AS DETERMINED BY A 15 MINUTE SAMPLE.

TLV NOT ESTABLISHED FOR THIS MATERIAL. 6005

THIS MATERIAL MAY CONTAIN UP TO 20% TOLUENE, CAS #108-88-3, WHICH HAS A TLV OF 50 PPM - SKIN, AND A PEL OF 100 PPM, STEL OF 150 PPM. 2.8% CYCLOHEXANE, CAS# 110-82-7, MAY ALSO BE PRESENT. THE PEL/TLV FOR CYCLOHEXANE IS 300 PPM. TOLUENE AND CYCLOHEXANE ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF SARA TITLE III.

Paris Moock motomic Specification Boiling Point

(servatho res

put mak

SECTION III-PHYSICAL DATA

for PRODUCT	(185.00 Deg F 85.00 Deg C) 760.00 mm Hg
for PRODUCT	•	38.00 mm Hg 68.00 Deg F 20.00 Deg C)

Specific Vapor Density Specific Gravity

AIR = 1

(ETHER

3.65 .752 60.00 Deg F 15.55 Deg C)

Typically Minimum Percent Volatiles

Evaporation Rate

Vapor Pressure

= 1)

100.00% 3.50

Do Kare Customer

requests

for a

17-13%

FLASH POINT(TCC

18.0 Deg F Ignitude (-7.8 Deg C)

SECTION IV-FIRE AND EXPLOSION INFORMATION

EXPLOSIVE LIMIT (PRODUCT) LOWER -1.2% UPPER - 7.0%

EXTINGUISHING MEDIA: REGULAR FOAM OR CARBON DIOXIDE OR DRY CHEMICAL

HAZARDOUS DECOMPOSITION PRODUCTS: MAY FORM TOXIC MATERIALS:, CARBON DIOXIDE AND CARBON MONOXIDE, VARIOUS HYDROCARBONS, ETC. m. Mum.

FIREFIGHTING PROCEDURES: WEAR SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE DEMAND MODE WHEN FIGHTING FIRES.

SPECIAL FIRE & EXPLOSION HAZARDS: NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPLOSIVELY.

ALL FIVE GALLON PAILS AND LARGER METAL CONTAINERS INCLUDING TANK CARS AND TANK TRUCKS SHOULD BE GROUNDED AND/OR BONDED WHEN MATERIAL IS TRANSFERRED.

MATERIAL IS HIGHLY VOLATILE AND READILY GIVES OFF VAPORS WHICH MAY TRAVEL ALONG THE GROUND OR BE MOVED BY VENTILATION AND IGNITED BY PILOT LIGHTS, OTHER FLAMES, SPARKS, HEATERS, SMOKING, ELECTRIC MOTORS, STATIC DISCHARGE, OR OTHER IGNITION SOURCES AT LOCATIONS DISTANT FROM MATERIAL HANDLING POINT.

SECTION V-HEALTH HAZARD DATA

PERMISSIBLE EXPOSURE LEVEL

PPM

NOT ESTABLISHED FOR PRODUCT. SEE SECTION II.

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CONTINUED ON PAGE: 2 ATTACHMENT 14 Page 14 of \$8

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SECTION V-HEALTH HAZARD DATA (Continued)

EFFECTS OF ACUTE OVEREXPOSURE:

EYES - EXPOSURE CAUSES EYE IRRITATION. SYMPTOMS MAY INCLUDE STINGING, TEARING, REDNESS, AND SWELLING.
SKIN - EXPOSURE MAY CAUSE MILD SKIN IRRITATION. PROLONGED OR REPEATED EXPOSURE MAY DRY THE SKIN. SYMPTOMS MAY INCLUDE REDNESS, BURNING, DRYING AND CRACKING, AND SKIN BURNS. PRE-EXISTING SKIN DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS MATERIAL.

SKIN ABSORPTION IS POSSIBLE, BUT HARMFUL EFFECTS ARE NOT EXPECTED FROM THIS ROUTE OF EXPOSURE UNDER NORMAL CONDITIONS OF HANDLING AND USE.

BREATHING - EXPOSURE TO VAPOR OR MIST IS POSSIBLE.

SHORT-TERM INHALATION TOXICITY IS LOW. BREATHING SMALL AMOUNTS DURING NORMAL HANDLING IS NOT LIKELY TO CAUSE HARMFUL EFFECTS; BREATHING LARGE AMOUNTS MAY BE HARMFUL.

SYMPTOMS ARE MORE TYPICALLY SEEN AT AIR CONCENTRATIONS EXCEEDING THE RECOMMENDED EXPOSURE LIMITS. SYMPTOMS OF EXPOSURE MAY INCLUDE:

-IRRITATION (NOSE, THROAT, RESPIRATORY TRACT) - PRE-EXISTING LUNG DISORDERS, E.G. ASTHMA-LIKE CONDITIONS, MAY BE AGGRAVATED BY EXPOSURE TO THIS MATERIAL.

-MUSCLE WEAKNESS
-INITIAL CENTRAL NERVOUS SYSTEM (CNS) EXCITATION (EUPHORIA, EXHILARATION, LIGHT-HEADEDNESS) FOLLOWED BY CNS DEPRESSION (DIZZINESS, DROWSINESS, WEAKNESS, FATIGUE, NAUSEA, HEADACHE, UNCONSCIOUSNESS) AND OTHER CNS EFFECTS
-CONFUSION
-IMPAIRED COORDINATION
-IMPAIRED COORDINATION
-IMPAIRED COORDINATION -

-IMPAIRED COORDINATION-

-AND DEATH

-AND DEATH
SWALLOWING - SINGLE DOSE ORAL TOXICITY IS LOW. SWALLOWING SMALL AMOUNTS DURING NORMAL HANDLING IS NOT LIKELY
TO CAUSE HARMFUL EFFECTS; SWALLOWING LARGE AMOUNTS MAY BE HARMFUL.

SYMPTOMS MAY INCLUDE:

-GASTROINTESTINAL IRRITATION (NAUSEA, VOMITING, DIARRHEA)-CENTRAL NERVOUS SYSTEM DEPRESSION (DIZZINESS, DROWSINESS, WEAKNESS, FATIGUE, NAUSEA, HEADACHE,
UNCONSCIOUSNESS)-

THIS MATERIAL CAN ENTER THE LUNGS DURING SWALLOWING OR VOMITING AND CAUSE LUNG INFLAMMATION AND/OR DAMAGE.

FIRST AID:

IF ON SKIN: REMOVE CONTAMINATED CLOTHING. WASH EXPOSED AREA WITH SOAP AND WATER. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION. LAUNDER CLOTHING BEFORE REUSE.

IF IN EYES: IF SYMPTOMS DEVELOP, MOVE INDIVIDUAL AWAY FROM EXPOSURE AND INTO FRESH AIR. FLUSH EYES GENTLY WITH WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS APART. IF SYMPTOMS PERSIST OR THERE IS ANY VISUAL DIFFICULTY, SEEK MEDICAL ATTENTION.

MALLOWED: DO NOT INDUCE VOMITING. THIS MATERIAL IS AN ASPIRATION HAZARD. IF INDIVIDUAL IS DROWSY OR UNCONSCIOUS, PLACE ON LEFT SIDE WITH THE HEAD DOWN. SEEK MEDICAL ATTENTION. IF POSSIBLE, DO NOT LEAVE INDIVIDUAL UNATTENDED.

BREATHED: IF SYMPTOMS DEVELOP, IMMEDIATELY MOVE INDIVIDUAL AWAY FROM EXPOSURE AND INTO FRESH AIR. SEEK IMMEDIATE MEDICAL ATTENTION; KEEP PERSON WARM AND QUIET. IF PERSON IS NOT BREATHING, BEGIN ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, ADMINISTER OXYGÊN.

NOTE TO PHYSICIAN:
INHALATION OF HIGH CONCENTRATIONS OF THIS MATERIAL, AS COULD OCCUR IN ENCLOSED SPACES OR DURING DELIBERATE
ABUSE, MAY BE ASSOCIATED WITH CARDIAC ARRHYTHMIAS. SYMPATHOMIMETIC DRUGS MAY INITIATE CARDIAC ARRHYTHMIAS
IN PERSONS EXPOSED TO THIS MATERIAL.

PRIMARY ROUTE(S) OF ENTRY:

INHALATION, SKIN CONTACT, EYE CONTACT, SKIN ABSORPTION

EFFECTS OF CHRONIC OVEREXPOSURE:

PROLONGED INTENTIONAL ABUSE MAY LEAD TO BRAIN DAMAGE CHARACTERIZED BY DISTURBANCES IN GAIT, PERSONALITY CHANGES AND LOSS OF MEMORY. COMPARABLE CENTRAL NERVOUS SYSTEM EFFECTS HAVE NOT BEEN SHOWN TO RESULT FROM OCCUPATIONAL EXPOSURE TO TOLUENE.

TOLUENE MAY BE HARMFUL TO THE HUMAN FETUS BASED ON POSITIVE TEST RESULTS WITH LABORATORY ANIMALS. CASE STUDIES REVEAL THAT PROLONGED INTENTIONAL ABUSE OF TOLUENE DURING PREGNANCY MAY CAUSE BIRTH DEFECTS IN HUMANS.

BASED ON THE AVAILABLE INFORMATION, THIS MATERIAL CANNOT BE CLASSIFIED WITH REGARD TO CARCINOGENICITY. THIS MATERIAL IS NOT LISTED AS A CARCINOGEN BY IARC, NTP OR OSHA.

OVEREXPOSURE TO THIS MATERIAL (OR ITS COMPONENTS) HAS BEEN SUGGESTED AS A CAUSE OF THE FOLLOWING EFFECTS IN LABORATORY ANIMALS, AND MAY AGGRAVATE PRE-EXISTING DISORDERS OF THESE ORGANS IN HUMANS:, CENTRAL NERVOUS SYSTEM DAMAGE, EFFECTS ON HEARING, MILD, REVERSIBLE LIVER EFFECTS, CARDIAC SENSITIZATION, RESPIRATORY

OVEREXPOSURE TO THIS MATERIAL (OR ITS COMPONENTS) HAS BEEN SUGGESTED AS A CAUSE OF THE FOLLOWING EFFECTS IN HUMANS, AND MAY AGGRAVATE PRE-EXISTING DISORDERS OF THESE ORGANS:, KIDNEY DAMAGE, CARDIAC SENSITIZATION

SECTION VI-REACTIVITY DATA

HAZARDOUS POLYMERIZATION: CANNOT OCCUR

STABILITY: STABLE

INCOMPATIBILITY: AVOID CONTACT WITH:, STRONG OXIDIZING AGENTS, STRONG ACIDS



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SECTION VII-SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

SMALL SPILE: ABSORB LIQUID ON VERMICULITE, FLOOR ABSORBENT OR OTHER ABSORBENT MATERIAL.

LARGE SPILL: ELIMINATE ALL IGNITION SOURCES (FLARES, FLAMES INCLUDING PILOT LIGHTS, ELECTRICAL SPARKS). PERSONS
NOT WEARING PROTECTIVE EQUIPMENT SHOULD BE EXCLUDED FROM AREA OF SPILL UNTIL CLEAN-UP HAS BEEN COMPLETED.
STOP SPILL AT SOURCE. PREVENT FROM ENTERING DRAINS, SEWERS, STREAMS OR OTHER BODIES OF WATER.PREVENT FROM
SPREADING. IF RUNOFF OCCURS, NOTIFY AUTHORITIES AS REQUIRED. PUMP OR VACUUM TRANSFER SPILLED PRODUCT TO
CLEAN CONTAINERS FOR RECOVERY. ABSORB UNRECOVERABLE PRODUCT.TRANSFER CONTAMINATED ABSORBENT, SOIL AND
OTHER MATERIALS TO CONTAINERS FOR DISPOSAL.

PREVENT RUN-OFF TO SEWERS, STREAMS OR OTHER BODIES OF WATER. IF RUN-OFF OCCURS, NOTIFY PROPER AUTHORITIES AS REQUIRED, THAT A SPILL HAS OCCURED.

WASTE DISPOSAL METHOD:

SMALL SPILL: DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

LARGE SPILL: DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

SECTION VIII-PROTECTIVE EQUIPMENT TO BE USED

RESPIRATORY PROTECTION: IF WORKPLACE EXPOSURE LIMIT(S) OF PRODUCT OR ANY COMPONENT IS EXCEEDED (SEE SECTION II). A NIOSH/MSHA APPROVED AIR SUPPLIED RESPIRATOR IS ADVISED IN ABSENCE OF PROPER ENVIRONMENTAL CONTROL. OSHA REGULATIONS ALSO PERMIT OTHER NIOSH/MSHA RESPIRATORS (NEGATIVE PRESSURE TYPE) UNDER SPECIFIED CONDITIONS (SEE YOUR INDUSTRIAL HYGIENIST). ENGINEERING OR ADMINISTRATIVE CONTROLS SHOULD BE IMPLEMENTED TO REDUCE EXPOSURE.

VENTILATION: PROVIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL EXHAUST) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).

PROTECTIVE GLOVES: WEAR RESISTANT GLOVES (CONSULT YOUR SAFETY EQUIPMENT SUPPLIER).

EYE PROTECTION: CHEMICAL SPLASH GOGGLES IN COMPLIANCE WITH OSHA REGULATIONS ARE ADVISED; HOWEVER, OSHA REGULATIONS ALSO PERMIT OTHER TYPE SAFETY GLASSES. CONSULT YOUR SAFETY REPRESENTATIVE.

OTHER PROTECTIVE EQUIPMENT: TO PREVENT REPEATED OR PROLONGED SKIN CONTACT, WEAR IMPERVIOUS CLOTHING AND BOOTS.

SECTION IX-SPECIAL PRECAUTIONS OR OTHER COMMENTS

CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED.SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR, LIQUID, AND/OR SOLID), ALL HAZARD PRECAUTIONS GIVEN IN THE DATA SHEET MUST BE OBSERVED.

WARNING!!! SUDDEN RELEASE OF HOT ORGANIC CHEMICAL VAPORS OR MISTS FROM PROCESS EQUIPMENT OPERATING AT ELEVATED TEMPERATURE AND PRESSURE, OR SUDDEN INGRESS OF AIR INTO VACUUM EQUIPMENT, MAY RESULT IN IGNITIONS WITHOUT THE PRESENCE OF OBVIOUS IGNITION SOURCES. PUBLISHED "AUTOIGNITION" OR "IGNITION" TEMPERATURE VALUES CANNOT BE TREATED AS SAFE OPERATING TEMPERATURES IN CHEMICAL PROCESSES WITHOUT ANALYSIS OF THE ACTUAL PROCESS CONDITIONS. ANY USE OF THIS PRODUCT IN ELEVATED TEMPERATURE PROCESSES SHOULD BE THOROUGHLY EVALUATED TO ESTABLISH AND MAINTAIN SAFE OPERATING CONDITIONS.

HYDROCARBON SOLVENTS ARE BASICALLY NON-CONDUCTORS OF ELECTRICITY AND CAN BECOME ELECTROSTATICALLY CHARGED DURING MIXING, FILTERING OR PUMPING AT HIGH FLOW RATES. IF THIS CHARGE REACHES A SUFFICIENTLY HIGH LEVEL, SPARKS CAN FORM THAT MAY IGNITE THE VAPORS OF FLAMMABLE LIQUIDS.

THE INFORMATION ACCUMULATED HEREIN IS BELIEVED TO BE ACCURATE BUT IS NOT WARRANTED TO BE WHETHER ORIGINATING WITH THE COMPANY OR NOT. RECIPIENTS ARE ADVISED TO CONFIRM IN ADVANCE OF NEED THAT THE INFORMATION IS CURRENT, APPLICABLE, AND SUITABLE TO THEIR CIRCUMSTANCES.



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DEFINITIONS

This definition page is intended for use with Material Safety Data Sheets supplied by the Ashland Chemical Company. Recipients of these data sheets should consult the OSHA Safety and Health Standards (29 CFR 1910), particularly subpart G - Occupational Health and Environmental Control, and subpart I - Personal Protective Equipment, for general guidance on control of potential Occupational Health and Safety Hazards.

SECTION I PRODUCT IDENTIFICATION

GENERAL OR GENERIC ID: Chemical family or product description.

DOT HAZARD CLASSIFICATION: Product meets DOT criteria for hazards listed.

SECTION II

Components are listed in this section if they present a physical or health hazard and are present at or above 1% in the mixture. If a component is identified as a CARCINOGEN by NTP, IARC, or OSHA as of the date on the MSDS, it will be listed and footnoted in this section when present at or above 0.1% in the product. Negative conclusions concerning carcinogenicity are not reported. Additional health information may be found in Section V. Components subject to the reporting requirements of Section 313 of SARA Title III are identified in the footnotes in this section, along with typical percentages. Other components may be listed if deemed appropriate.

Exposure recommendations are for components. OSHA Permissible Exposure Limits (PELS) and American Conference of Governmental Industrial Hygienists (ACG!H) Threshold Limit Values (TLVs) appear on the line with the component identification. Other recommendations appear as footnotes.

SECTION III PHYSICAL DATA

BOILING POINT: Of product if known. The lowest value of the components is listed for mixtures.

VAPOR PRESSURE: Of product if known. The highest value of the components is listed for mixtures.

SPECIFIC VAPOR DENSITY: Compared to AIR = 1. If the Specific Vapor Density of a product is not known, the value is expressed as lighter or greater than air.

SPECIFIC GRAVITY: Compared to WATER = 1. If Specific Gravity of product is not known, the value is expressed as less than or greater than water.

pH: If applicable.

PERCENT VOLATILES: Percentage of material with initial boiling point below 425 degrees Fahrenheit and vapor pressure above 0.1mm Hg at 68 F.

EVAPORATION RATE: Indicated as faster or slower than ETHYL ETHER, unless otherwise stated.

SECTION IV FIRE AND EXPLOSION DATA

FLASH POINT: Method identified.

EXPLOSION LIMITS: For product if known. The lowset value of the components is listed for mixtures.

HAZARDOUS DECOMPOSITION PRODUCTS: Known or expected hazardous products resulting from heating, burning or other reactions.

SECTION IV (cont.)

EXTINGUISHING MEDIA: Following National Fire Protection Association criteria.

FIREFIGHTING PROCEDURES: Minimum equipment to protect firefighters from toxic products of vaporization, combustion or decomposition in fire situations. Other firefighting hazards may also be indicated.

SPECIAL FIRE AND EXPLOSION HAZARDS: States hazards not covered by other sections.

NFPA CODES: Hazard ratings assigned by the National Fire Protection Association.

SECTION V

HEALTH HAZARD DATA

PERMISSIBLE EXPOSURE LIMIT: For product.

THRESHOLD LIMIT VALUE: For product.

EFFECTS OF ACUTE OVEREXPOSURE: Potential local and systemic effects due to single or short term overexposure to the eyes and skin or through inhalation or ingestion.

EFFECTS OF CHRONIC OVEREXPOSURE: Potential local and systemic effects due to repeated or long term overexposure to the eyes and skin or through inhalation or ingestion.

FIRST AID: Procedures to be followed when dealing with accidental overexposure.

PRIMARY ROUTE OF ENTRY: Based on properties and expected use.

SECTION VI

REACTIVITY DATA

HAZARDOUS POLYMERIZATION: Conditions to avoid to prevent hazardous polymerization resulting in a large release of energy.

STABILITY: Conditions to avoid to prevent hazardous or violent decomposition.

INCOMPATIBILITY: Materials and conditions to avoid to prevent hazardous reactions.

SPILL OR LEAK PROCEDURES

Reasonable precautions to be taken and methods of containment, clean-up and disposal. Consult federal, state and local regulations for accepted procedures and any reporting or notification requirements.

SECTION VIII PROTECTIVE EQUIPMENT TO BE USED

Protective equipment which may be needed when handling the product.

SECTION IX

SPECIAL PRECAUTIONS OR OTHER COMMENTS

Covers any relevant points not previously mentioned.

ADDITIONAL COMMENTS

Containers should be either reconditioned by CERTIFIED firms or properly disposed of by APPROVED firms. Disposal of containers should be in accordance with applicable laws and regulations. "EMPTY" drums should not be given to individuals. Serious accidents have resulted from the misuse of "EMPTIED" containers (drums,pails,etc.). Refer to Sections IV and IX.

ATTROUGHT I HOSCALL OF #8

Most of 1.4 used in this. TOYO INK MFG. CO. LTD.
INK DIVISION
3-13, Kyobashi, 2-chome, Chuo-ku, Tokyo, Japan Phone No. 03-272-5721 SECTION I

HAZARD RATINGS HEALTH Minimal..... 0 Slight 1 FLAMMABILITY Moderate 2 Serious 3 REACTIVITY. Severe ······ 4

Date: June 27, 1991

i		
PRODUCT NAME	TK MARK V NEW Process Series	CHEMICAL NAME & SYNONYMS Compound
PRODUCT CLASS	Printing Ink (Sheet-fed)	EMERGENCY PHONE NO. 617-762-7180

SECTION II — INGREDIENTS

MAIN INGREDIENTS			en e i u sema mana i sema e i sema i sessioni.	e en en no en monoro de monografia de la companyo
Pigment (As per attached sheet) Rosin modified phenolic resin Linseed oil polymerized	CAS Na (Yarious) (various)	96 11 - 25 25 - 35	(All20)	Hr. (ACCIH)
White mineral oils! Alkyl benzene Additives	(67746-08-1) (8042-47-5) (123-01-3) (various)	15 25 12 21 8 18 5>	NL NL NL	NL NL NL
HAZARDOUS INGREDIENTS B≪C.I.Pigment Blue 15:3 (Cu 11%)	(147-14-8)	17	1.0 mg/m ³	1.0 mg/m³
Carbon black	(1333-86-4)	18	(asCu) 3.5 mg/m³	(asCu) 3.5 mg/m³

Section 313 Supplier Notification:
This Product contains the above toxic chemicals (**Marked*) subject to the reporting requirement of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

SECTION III - PHYSICAL DATA

BOILING POINT	łA .	Yolatile wt% As per attached sheet	SPECIFIC GRAVITY 1.0 — 1.1	_
VAPOR PRESSURB A	IA.		MELTING POINT NA	-
SOLUBILITY IN WATE	R	Insoluble	APPEARANCE AND ODOR Colour Paste	-

SECTION IV-FIRE & EXPLOSION DATA

							•
FLASH POINT	130	°C or	greater	_	PLAMMABLE LIMITS	NA	
EXTINGUISHING	REDIA		,				·
LYLLHOOLPHING							i
Ī	CO • .	Foam	Dry Powder				
1	0021	1 Odin,	Dry rowilet		•		
							‡

PECIAL FIRE FIGHTING PROCEDURE

None

UNUSUAL FIRE AND EXPLOSION HAZARD

None

MA = Not Applicable Filmonia

SECTION V-REACTIVITY DATA

(contin

				(contin
Stable Stable	COND	DIOVA OT NOITI	None	
POLYMERIZATION May occur very significant	COND Dwly	ITION TO AVOID	None	
INCOMPATIBILITY (MATERIALS TO AVO	ID) None	•		
HAZARDOUS DECOMPOSITION OR BY-PRO	DUCT None			
SECTION VI-HEALTH HAZARD DATA				
ROUTE OF ENTRY	INHALATION	SKIN		. INGESTION
HEALTH HAZARD		<u></u>		<u>X</u>
· Unknown				
SIGNS AND SYMPTOMS OF EXPOSURE Contact with eyes may result in irritation. Ingestion may result	irritation. I	Prolonged skin disturbances	contact	may cause minor skin
CARCINOGENICITY	NTP No.	I ARC		OSIIA No
EMERGENCY AND FIRST AID				110
EYEImmediately wash eyes with redical attention. SKINWash affected areas with so INGESTIONIf swallowed immediate an unconscious person. Call a phenomenant was a property of the state of the s	ap and water, ly give 2 gla ysician immed			
ECTION VI-PRECAUTIONS FOR SAFE H STEPS TO BE TAKEN IN CASE MATERIAL	C ADD DELEACE	D OR SPILLED		
WASTE DISPOSAL METHOD	disposal towo	els.		
Dispose in accordance with loca		federal regula	tions.	
PRECAUTIONS FOR HANDLING AND STORA	GB None			
ECTION WI - CONTROL MEASURES			 	
RESPIRATORY PROTECTION (SPECIFY)	None	1		
	Recommend	led		
YENTILATION PRUTECTIVE GLOVES Desirable	Recommend	EYE PROTECTIO		Desirable

INK NAME & V. O. C VALUE

N o	LAK NAMII	7. O. C	AVEAR
		y./ Ł	lb/gal
1	TK MARK Y YELLOW	0.8.1	1.50
.2	TK MARK V MAGENTA	120	1.00
3	TK MARK V CYAN	185	1. 5.4
4	TK MARK V BLACK	140	1 1 7

What is Did not have into.

Just toothis done.

PIGMENT, LIST

	<u>Jv</u>					l I	MK	He).
	No	Pigment	CAS Ro.	OSHA	ACGIH		2	1 3	T
	1	C.I.Pigment Yellow 12	6358-85-6	111,	111.	0		- <u>'</u> '-	
c - ·	2	C.I.Pigment Red 57:1	5281-04-9	<i>III.</i>	NI,		0	ļ	
Soln in 93% sufurje	3	C.I.Pigment Blue 15:3	147-14-8	L.O mg/m²	1.0 mg/u/			0	0
Benzene sulfone acid	4	C.I.Pigment Blue 61	1324-76-1	NL.	NL NL	· · · · ·			0
	. 5	C.I.Pigment Black 7	1333-86-4	3.5 mg/m²	3.5 mg/nč				0
					1	ı	- 1	' J	7

SUPPLIER :

TOYO/DIPONT INTERPATIONAL INK 180 KERRY PLACE. HORWOOD, MA 02062, U.S.A. Phone No. 617-762-7180

CALIFORNIA BRANCH 10870 TALBERT AVENUB FOUNTAIN VALLEY, CA 92708, U.S.A. Phone No. 714-965-5133

CHICAGO BRANCH 2255 LOIS DRIVE ROLLING MEADOWS, ILL 60008. U.S.A. Phone No. 708-952-0303

Oh sparge

PLATE NU

PLATE CLEANER

MATERIAL SAFETY DATA SHEET

THIS MSDS IS BEING PROVIDED TO YOUR COMPANY TO PROVIDE CURRENT HEALTH AND SAFETY INFORMATION TO MANAGEMENT AND ITS EMPLOYEES WHO WORK WITH THIS PRODUCT. PLEASE READ THIS INFORMATION AND PROVIDE IT TO WHOMEVER IS RESPONSIBLE FOR COMPLYING WITH FEDERAL AND STATE RIGHT TO KNOW REGULATIONS. IT IS YOUR RESPONSIBILITY TO COMPLY WITH THIS ACT. Jan /97

SECTION I - PRODUCT INFORMATION

Producer's Name:

THE GRAFSOLVE COMPANY

Address:

NORTHBROOK, ILLINOIS 60065 - 1185

Regular Phone Number: (847) 498-6300

Emergency Phone Number: (847) 498-6300

Chemical Name and Synonyms: PLATE NU PLATE CLEANER

Chemical Family:

SCRATCH REMOVER .

Trade Name and Synonyms:

PLATE CLEANER & SCRATCH REMOVER

SECTION II - A HAZARDOUS COMPONENTS

NO. COMPONENT EPC # : \$ BY WT.

1. SODIUM XYLENE SULFONATE

639 . les

2. 2 BUTOXYETHANOL

193

less than 11 less than 11 2

VOLATILES: .43 lbs per Gal (Theoretical) lbs per Gal

Wt:

9.1273 lbs per Gal

 $H=2 \qquad F=1 \qquad R=0$

SECTION III PHYSICAL DATA

BOILING POINT: 212 Degrees F.

EVAPORATION RATE: Less Than (1) (Ether=1)

%Solid : N/A (Theoretical)

VAPOR DENSITY: GREATER than (1) (Air=1) Wt per Gal : 9.1273 (Theoretical)

la gal = .43 x gal used (31 gal) = 13.33 VOC used

Volatiles by Wt: .43 lbs per Gal (Theoretical) VAPOR PRESSURE: N/A

(BOILING POINT=BOILING POINT OF LOWEST BOILING RAW MATERIAL)

SECTION IV HEALTH INFORMATION

EYE CONTACT: PRODUCT IS PRESUMED TO BE IRRITATING TO THE EYES
NOSE & THROAT /PRODUCT VAPORS MAY ALSO BE

IRRITATING . MAY CAUSE CORNEAL INJURY.

SKIN CONTACT: PRODUCT IS PRESUMED TO BE MODERATEDLY IRRITATING TO THE SKIN. PROLONGED CONTACT MAY RESULT IN DEPARTING AND DRYING OF THE SKIN. DERMATITIS MAY RESULT.

INHALATION: EXPOSURE MAY PRODUCT IRRITATION TO THE NOSE, THROAT, RESPIRATORY TRACT AND OTHER MUSCOUS MEMBRANES. MUST HAVE WELL VENTILATED AREAS. EXPOSURE OF HIGH CONCENTRATIONS MAY LEAD TO NERVOUS SYSTEM DEPRESSION. SEE REFERENCE SOURCES.

SIGNS AND SYMPTOMS = SYMPTOMS OF EYE IRRIATION INCLUDE REDDENING AND SWELLING. SYMPTOMS OF SKIN IRRIATION INCLUDE REDDENING, SWELLING, RASH AND REDNESS. SYMPTOMS OF RESPIRATORY IRRITATION INCLUDE RUNNY NOSE SORE THROAT, COUGHING, GASTROINTESTINAL IRRITATION.

INGESTION: PRESUMED TO BE MODERATELY TOXIC. SEVERE LUNG DAMAGE MAY RESULT FROM VOMITTING

SECTION V EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT- IMMEDIATELY FLUSH EYES WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. SEEK PROMPT MEDICAL ATTENTION.

SKIN CONTACT=REMOVE CONTAMINATED CLOTHING AND SHOES. WIPE EXCESS FROM SKIN AND FLUSH WITH WATER USING SOAP IF AVAILABLE. SEEK MEDICAL ATTENTION IF IRRITATION OCCURS. DO NOT REUSE CLOTHING UNTIL THOROUGHLY DECONTAMINATED.

INHALATION=REMOVE VICTIM TO FRESH AIR. SEEK PROMPT MEDICAL ATTENTION.

INGESTION=DO NOT INDUCE VOMITTING. IF VOMITTING SPONTANEOUSLY OCCURS, KEEP THE VICTIM'S HEAD BELOW THE HIPS TO PREVENT ASPIRATION INTO THE LUNGS.

SECTION VI FIRE AND EXPLOSION HAZARDS

FLASH POINT = 200 F. (TCC)

EXTINGUISHING MEDIA-USE WATER FOG, FOAM, DRY CHEMICAL OR CARBON DIOXIDE

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS = COMBUSTIBLE.

CLEAR FIRE AREA OF UNPROTECTED PERSONNEL. DO NOT ENTER CON-FINED FIRE SPACE WITHOUT HELMET, FACE SHIELD, BUNKER COAT, GLOVES, RUBBER BOOTS AND POSITIVE NIOSH-APPROVED SELF-CON-TAINED BREATHING APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARDS=
CONTAINERS EXPOSED TO INTENSE HEAT FROM FIRES SHOULD BE COOLED
WITH WATER TO PREVENT VAPOR PRESSURE BUILDUP WHICH COULD RESULT
IN CONTAINER RUPTURE. CONTAINERS THAT ARE EXPOSED TO DIRECT
FLAME SHOULD BE COOLED WITH WATER TO ELIMINATE STRUCTURAL
WEAKENING OF THE CONTAINER'S WALL AND POSSIBLE RUPTURE.

SECTION VII REACTIVITY

STABILITY: STABLE HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

CONDITIONS AND MATERIALS TO AVOID:

AVOID STRONG ACIDS, STRONG ALKALIES, OXIDIZING MATERIALS,
AGENTS.

SECTION VIII EMPLOYEE PROTECTION

RESPIRATORY PROTECTION-VENTILATION AS REQUIRED TO CONTROL VAPOR CONCENTRATIONS-

GENERAL ROOM VENTILATION. NOT ESTABLISHED FOR RESPIRATOR.

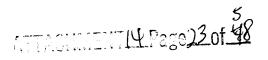
PROTECTIVE CLOTHING -

WEAR SAFETY GLASSES, COGGLES OR A SPLASH SHIELD TO PREVENT EYE CONTACT. CONTACT LENSES SHOULD NOT BE WORN. WEAR APPROPRIATE GLOVES AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND CLOTHING.

ADDITIONAL PROTECTIVE MEASURES -EYE WASH FOUNTAINS AND SAFETY SHOWERS SHOULD BE AVAILABLE FOR USE IN AN EMERGENCY.

SPILL OR LEAK PROCEDURE-

LARGE SPILLS EVACUATE THE HAZARD AREA OF UNPROTECTED PERSONNEL. WEAR APPROPRIATE RESPIRATOR AND PROTECTIVE CLOTHING. SHUT OFF SOURCE OF LEAK ONLY IF SAFE TO DO SO. DIKE AND CONTAIN IF VAPOR CLOUD FORMS, WATER FOG MAY BE USED TO SUPPRESS; CONTAIN RUN OFF. REMOVE WITH VACUUM TRUCKS OR PUMP TO STORAGE/SALVAGE VESSELS. SOAK UP RESIDUE WITH AN ABSORBENT SUCH AS CLAY, SAND OR OTHER SUITABLE MATERIAL; PLACE IN NON-LEAKING CONTAINERS WITH PROPER



DISPOSAL. FLUSH AREA WITH WATER TO REMOVE TRACE RESIDUE; DISPOSE OF FLUSH SOLUTIONS. SMALL SPILLS-TAKE UP, WITH AN ABSORBENT MATERIAL AND PLACE IN NON-LEAKING CONTAINERS; SEAL TIGHTLY FOR PROPER DISPOSAL.

WASTE DISPOSAL-

OBSERVE ALL FEDERAL, STATE AND LOCAL REGULATIONS REGARDING PROPER DISPOSAL.

SECTION X

ADDITIONAL PRECAUTIONS

KEEP LIQUID AND VAPOR AWAY FROM HEAT, SPARKS, AND PLAME. EXTINGUISH PILOT LIGHTS, CIGARETTES AND TURN OFF OTHER POSSIBLE SOURCES OF IGNITION PRIOR TO USE AND UNTIL VAPORS ARE GONE. KEEP CONTAINERS CLOSED WHEN NOT IN USE. USE WITH ADEQUATE VENTILATION. CONTAINERS, EVEN IF EMPTY, CAN CONTAIN EXPLOSIVE VAPORS OR RESIDUES. DO NOT CUT, DRILL, GRIND OR WELD NEAR CONTAINERS

AFTER CONTACT WITH PRODUCT OR CONTAINER WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES.

UNDER THE PROVISIONS OF TITLE III, SECTIION 313 OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR, PART 372, THE FOLLOWING COMPONENTS MAY BE SUBJECT TO REPORTING:

THE INFORMATION CONTAINED HEREIN IS BASED ON THE DATA TO US AND IS BELIEVED TO BE CORRECT. HOWEVER, WE MAKE NO WARRANTY, EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. WE ASSUME NO RESPONSIBILITY FOR INJURY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN.

-OCT 1996 Revised Jan '97

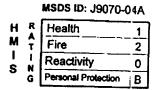
- TT 10 1 MENT 14 Page 24 of 48





PETRO GUM®

GUM FOR LONG TERM STORAGE



MANUFACTURED BY: TEL (414)258-0911

(800)558-0747 FAX (414)258-7908 RBP CHEMICAL CORPORATION 150 SOUTH 118th STREET

P.O. BOX 14069

MILWAUKEE, WI 53214-0069

EMERGENCY (CHEMTREC) (800)424-9300

HAZARDOUS INGREDIENTS

NAME	CAS#	TLV	STEL	%
XYLENE	1330-20-7	100 ppm	150 ppm	0.1-1.0
LIGHT AROMATIC SOLVENT NAPHTHA	64742-95-6	50 ppm	not est.	0.1-1.0
STODDARD SOLVENT KEROSENE	8052-41-3	100 ppm	not est.	
TENOOLINE.	8008-20-6	not est.	not est.	1.0-5.0

Constituents which may require SARA Title III Section 313 reporting.

None

PHYSICAL/CHEMICAL CHARACTERISTICS 18gal used 9.2 lb VOC used

Boiling Point: nd

Solubility in Water: **Partial**

pH: nd

Density: 8.9 lbs/gal, 1.07 gm/ml.

VOC by EPA Method 24: 5.8%, 0.52 lbs/gal, 62 gm/L VOC Vapor Pressure: Appearance and Odor:

Jark brown emulsion with tar-like odor.

FIRE AND EXPLOSION HAZARD DATA

Flash Point:

>210 °F (SCC)

Extinguishing Media:

Appropriate to primary cause of fire. This product will not support combustion

Special Fire Fighting Procedures:

As in any fire involving chemicals, self contained breathing apparatus and protective clothing should be worn.

Unusual Fire and Explosion Hazards:

None

REACTIVITY DATA

Stability:

Stable

Incompatibility:

None known

Hazardous Decomposition Byproducts:

Acetic acid fumes.

Hazardous Polymerization:

Will not occur.

Conditions to Avoid:

None

HEALTH HAZARD DATA

Routes of Entry:

inhelation Skin Ingestion **Primary** Secondary Unlikely Health Hazards Acute and Chronic:

Due to the low concentrations of hazardous ingredients in this product, no hazardous exposures are likely when used in the normal manner. Overexposure to the individual hazardous ingredients in their concentrated form may cause respiratory tract imitation, headache and stupor. Ingestion causes irritation to the stomach and intestines. Long term overexposure to most petroleum hydrocarbons may cause liver or kidney injury. Contact may cause eye and skin imitation.

None of the ingredients in this product are listed by IARC, NTP or OSHA as carcinogenic.

Emergency and First Aid Procedures:

Eye Contact: Flush eyes with water for at least 15 minutes.

Consult a physician.

Skin Contact: Wash affected area with soap and water. Remove

contaminated clothing.

Inhalation: Remove to fresh air. Restore breathing if required.

Get medical attention.

Ingestion: Give two glasses of water, or preferably milk. IDO

NOT INDUCE VOMITING. Get medical attention.

Signs and Symptoms of Overexposure:

Headache, dizziness, nausea, irritation of the mucous membranes, respiratory tract irritation, symptoms of bronchitis, or mild narcosis at high concentrations.

Medical Condition Aggravated by Exposure:

May aggravate an existing dermatitis.

PRECAUTIONS FOR USE AND DISPOSAL

Spills:

Soak up spill with suitable absorbent or rinse to sewer. Rinse area thoroughly with soap and water.

Waste Disposal:

Dispose of in accordance with all local, state or federal regulations. In most jurisdictions, rinse and wash up water may be discharged to

Special Storage/ Handling Precautions:

None

CONTROL MEASURES

Respiratory Protection:

Not normally required.

Ventilation:

Local ☐ Mechanica! \boxtimes Special

Eye Protection: Recommended

Gloves: Recommended, butyl, rubber, or neoprene

Other:

ATTACHMENT 149cme 250f48

An eye fountain should be located in any work place when working with chemicals.

The information contained herein is furnished without warranty of any kind. Users should consider this data a supplement to other information gathered by them and are responsible for completeness of information to assure proper use of these materials and the safety and health of their employees. Date Printed 1/15/96

This MSDS prepared under the direction of: Wayne Koontz, Safety Director 2/10/88 Revised: 12/15/95 WJK Rev. Code: 04A

RBPC-00-0002.02



ON THE FLY

PLATE CLEANER AND CONDITIONER

MSDS ID: J9117-01R

H	R	Health	2
M	Î	Fire	1
I I S N G	ļ	Reactivity	0
	G	Personal Protection	В
_	G	Personal Protection	В

MANUFACTURED BY:

RBP CHEMICAL CORPORATION

TEL (414)258-0911 (800)558-0747 150 SOUTH 118th STREET P.O. BOX 14069

FAX (414)258-7908

MILWAUKEE, WI 53214-0069

4.65 lb VOC

EMERGENCY (CHEMTREC) (800)424-9300

HEALTH HAZARD DATA

Routes of Entry:

Inhalation

Skin **Primary**

Ingestion

Secondary

Unlikely

Health Hazards Acute and Chronic:

Contact with the eyes will cause severe irritation and if not promptly treated, may result in eye damage. Prolonged contact with the skin may cause irritation. Repeated and prolonged contact may cause dermatitis. Inhalation of vapors or mists may cause irritation of the nose and throat, headache, nausea, and drowsiness.

Carcinogenicity:

None of the ingredients in this product are listed by IARC, NTP or OSHA as carcinogenic.

Emergency and First Aid Procedures:

Eye Contact:

IMMEDIATELY wash out with water for 15 minutes.

See a physician.

Skin Contact:

Wash with water.

lougts = 15 gal used Inhabition:

Not considered a hazard for this product.

Drink large quantities of water or fruit juice. Consult

a physician.

Signs and Symptoms of Overexposure:

Prolonged skin contact may cause swelling, itching and redness. Inhalation of high concentrations may cause dizziness, nausea and

Medical Condition Aggravated by Exposure:

May aggravate an existing dermatitis.

PRECAUTIONS FOR USE AND DISPOSAL

Soak up spill with suitable absorbent. Rinse area well with water or a solution of vinegar and water.

Waste Disposal:

Discharge of small amounts of used solution, rinse or wash-up water to municipal treatment plants, is acceptable in most jurisdictions.

Special Storage/ Handling Precautions:

CONTROL MEASURES

Respiratory Protection:

Not normally required. (Organic vapor respirator for excessive mist or vapor concentrations.)

Ventilation:

Local

Mechanical X Special

Eye Protection: Recommended

Gloves: Recommended, butyl, rubber, or neoprene

Other:

An eye fountain should be located in any work place when working with chemicals.

HAZARDOUS INGREDIENTS

NAME	CAS#	TLV	STEL	%
DIPROPYLENE GLYCOL 1-BUTYL ETHER	29911-28-2	not est.	not est.	5.0-10
ANIONIC SURFACTANT	Proprietary	not est.	not est.	1.0-5.0
SODIUM METASILICATE	6834-92-0	not est.	not est.	1.0-5.0

Constituents which may require SARA Title III Section 313 reporting.

None

PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point:

nd

Solubility in Water: pH: 12.6

Density: 8.7 lbs/gal, 1.04 gm/ml.

VOC by EPA Method 24:

3.6%, 0.31 lbs/gal, 37 gm/L VOC Vapor Pressure:

Appearance and Odor:

Clear blue liquid with a mild odor.

FIRE AND EXPLOSION HAZARD DATA

Flash Point:

>212 °F (TCC)

Extinguishing Media:

Will not support combustion. Use equipment appropriate to major cause of fire.

Special Fire Fighting Procedures:

As in any fire involving chemicals, self contained breathing apparatus and protective clothing should be worn.

Unusual Fire and Explosion Hazards:

None

REACTIVITY DATA

Stability:

Stable

Incompatibility:

None known

Hazardous Decomposition Byproducts:

Carbon monoxide/dioxide upon thermal decomposition.

Hazardous Polymerization:

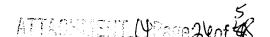
Conditions to Avoid:

Will not occur.

None

The information contained herein is furnished without warranty of any kind. Users should consider this data a supplement to other information gathered by them and are responsible for completeness of information to assure proper use of these materials and the safety and health of their employees. Date Printed 12/20/95

This MSDS prepared under the direction of: Wayne Koontz, Safety Director 12/12/94 Revised: 7/10/95 WJK Rev. Code: 01B





ASHLAND CHEMICAL, INC. Subsidiary Of Ashland Oil Inc P.O. BOX 2219 COLUMBUS, OHIO 43216 (614) 889-3933

24-HOUR Emergency Telephone 1(800) 274-5263 or 1(800) ASHLAND

000629

DAMPENING SOLUTION 9010 -

Additive to Genes

THIS MSDS COMPLIES WITH 29 CFR 1910.1200 (THE HAZARD COMMUNICATION STANBARD) regun addition.

Product Name: DAMPENING SOLUTION 9010

ROSSE LITHOGRAPHING CO INC 2100 WYANDOTTE KANSAS CITY MO 64

MO 64108

05 50 015 7638600-

Data Sheet No: 0220245-003.000 Prepared: 02/26/92 Supersedes: 07/17/90

Dampening Schallan

INVOICE: 7/85286
INVOICE DATE: 07/09/92
TO: ROSSE LITHOGRAPHING CO INC
2100 WYANDOTTE
KANSAS CITY MO 64

MO 64108

ATTN: PLANT MGR./SAFETY DIR.

SECTION I-PRODUCT IDENTIFICATION

General or Generic ID: SOLVENT BLEND

DOT Hazard Classification: COMBUSTIBLE (173.115)

SECTION II-COMPONENTS

Coolant for old prios IF PRESENT, IARC, NTP AND OSHA CARCINOGENS AND CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III SECTION 313 ARE IDENTIFIED IN THIS SECTION.

SEE DEFINITION PAGE FOR CLARIFICATION

% (by VOL)

PEL.

TLV

Note

506 ETHYLENE GLYCOL MONOPROPYL ETHER CAS #: 2807-30-9

99

(1)

(long) 2,2,4- TRIME-1,3-PENTANEDIOL, MONOISOBU CAS #: 25265-77-4

(2)

Notes:

Jus

מנש

Jews.

(1) PEL/TLV NOT ESTABLISHED FOR THIS MATERIAL

SUPPLIER RECOMMENDS A WORKPLACE EXPOSURE LIMIT OF 25 PPM-TWA, "SKIN NOTATION".

THIS CHEMICAL IS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF SARA TITLE III.

(2) PEL/TLV NOT ESTABLISHED FOR THIS MATERIAL

	SEC	CTION III-PHYSICAL DATA	
Boiling Point	for COMPONENT(99%)	301.00 Deg F (149.44 Deg C) @ 760.00 mm Hg
Vapor Pressure	for COMPONENT(99%)	1.30 mm Hg @ 77.00 Deg F (25.00 Deg C)
Specific Vapor Density			. HEAVIER THAN AIR
Specific Gravity			LESS THAN WATER
Percent Volatiles			>99%
Evaporation Rate			SLOWER THAN ETHER

SECTION IV-FIRE AND EXPLOSION INFORMATION

.6%

FLASH POINT(TCC

115.0 - 125.0 Deg F

46.1 -51.7 Deg C)

EXPLOSIVE LIMIT

(LOWEST VALUE OF COMPONENT) LOWER -

EXTINGUISHING MEDIA: ALCOHOL FOAM OR WATER FOG OR CARBON DIOXIDE OR DRY CHEMICAL

HAZARDOUS DECOMPOSITION PRODUCTS: MAY FORM TOXIC MATERIALS:, CARBON DIOXIDE AND CARBON MONOXIDE, VARIOUS HYDROCARBONS, ETC.

FIREFIGHTING PROCEDURES: WEAR SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE DEMAND MODE WHEN FIGHTING FIRES.

SPECIAL FIRE & EXPLOSION HAZARDS: VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG THE GROUND OR BE MOVED BY VENTILATION AND IGNITED BY HEAT, PILOT LIGHTS, OTHER FLAMES AND IGNITION SOURCES AT LOCATIONS DISTANT FROM MATERIAL HANDLING POINT.

NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPLOSIVELY.

ALL FIVE GALLON PAILS AND LARGER METAL CONTAINERS INCLUDING TANK CARS AND TANK TRUCKS SHOULD BE GROUNDED AND/OR BONDED WHEN MATERIAL IS TRANSFERRED.

SECTION V-HEALTH HAZARD DATA

PERMISSIBLE EXPOSURE LEVEL: NOT ESTABLISHED.

EFFECTS OF ACUTE OVEREXPOSURE:

EYES - EXPOSURE TO LIQUID OR VAPOR MAY CAUSE EYE IRRITATION. SYMPTOMS MAY INCLUDE BURNING, TEARING, REDNESS, AND SWELLING.

CONTINUED ON PAGE: 2 ATTAGEMENT LPage 27 of



ASHLAND CHEMICAL, INC.

Subsidiary of Ashalad Oil, Inc. P.O. BOX 2219 COLUMBUS, OHIO 43216 (614) 889-3333 24-HOUR Emergency Telephone 1(800) 274-5263 or 1(800) ASHLAND

DEFINITIONS

This definition page is intended for use with Material Safety Data Sheets supplied by the Ashland Chemical Company. Recipients of these data sheets should consult the OSHA Safety and Health Standards (29 CFR 1910), particularly subpart G – Occupational Health and Environmental Control, and subpart I – Personal Protective Equipment, for general guidance on control of potential Occupational Health and Safety Hazards.

SECTION I PRODUCT IDENTIFICATION

GENERAL OR GENERIC ID: Chemical family or product description.

DOT HAZARD CLASSIFICATION: Product meets DOT criteria for hazards listed.

SECTION II COMPONENTS

Components are listed in this section if they present a physical or health hazard and are present at or above 1% in the mixture. If a component is identified as a CARCINOGEN by NTP, IARC, or OSHA as of the date on the MSDS, it will be listed and footnoted in this section when present at or above 0.1% in the product. Negative conclusions concerning carcinogenicity are not reported. Additional health information may be found in Section V. Components subject to the reporting requirements of Section 313 of SARA Title III are identified in the footnotes in this section, along with typical percentages. Other components may be listed if deemed appropriate.

Exposure recommendations are for components. OSHA Permissible Exposure Limits (PELS) and American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLVs) appear on the line with the component identification. Other recommendations appear as footnotes.

SECTION III PHYSICAL DATA

BOILING POINT: Of product if known. The lowest value of the components is listed for mixtures.

VAPOR PRESSURE: Of product if known. The highest value of the components is listed for mixtures.

SPECIFIC VAPOR DENSITY: Compared to AIR = 1. If the Specific Vapor Density of a product is not known, the value is expressed as lighter or greater than air.

SPECIFIC GRAVITY: Compared to WATER = 1. If Specific Gravity of product is not known, the value is expressed as less than or greater than water.

pH: If applicable.

PERCENT VOLATILES: Percentage of material with initial boiling point below 425 degrees Fahrenheit and vapor pressure above 0.1mm Hg at 68 F.

EVAPORATION RATE: Indicated as faster or slower than ETHYL ETHER, unless otherwise stated.

SECTION IV FIRE AND EXPLOSION DATA

FLASH POINT: Method identified.

EXPLOSION LIMITS: For product if known. The lowset value of the components is listed for mixtures.

HAZARDOUS DECOMPOSITION PRODUCTS: Known or expected hazardous products resulting from heating, burning or other reactions.

SECTION IV (cont.)

EXTINGUISHING MEDIA: Following National Fire Protection Association criteria.

FIREFIGHTING PROCEDURES: Minimum equipment to protect firefighters from toxic products of vaporization, combustion or decomposition in fire situations. Other firefighting hazards may also be indicated.

SPECIAL FIRE AND EXPLOSION HAZARDS: States hazards not covered by other sections.

NFPA CODES: Hazard ratings assigned by the National Fire Protection Association.

SECTION V

HEALTH HAZARD DATA

PERMISSIBLE EXPOSURE LIMIT: For product.

THRESHOLD LIMIT VALUE: For product.

EFFECTS OF ACUTE OVEREXPOSURE: Potential local and systemic effects due to single or short term overexposure to the eyes and skin or through inhalation or ingestion.

EFFECTS OF CHRONIC OVEREXPOSURE: Potential local and systemic effects due to repeated or long term overexposure to the eyes and skin or through inhalation or ingestion.

FIRST AID: Procedures to be followed when dealing with accidental overexposure.

PRIMARY ROUTE OF ENTRY: Based on properties and expected use.

SECTION VI

REACTIVITY DATA

HAZARDOUS POLYMERIZATION: Conditions to avoid to prevent hazardous polymerization resulting in a large release of energy.

STABILITY: Conditions to avoid to prevent hazardous or violent decomposition.

INCOMPATIBILITY: Materials and conditions to avoid to prevent hazardous reactions.

SPILL OR LEAK PROCEDURES

Reasonable precautions to be taken and methods of containment, clean-up and disposal. Consult federal, state and local regulations for accepted procedures and any reporting or notification requirements.

SECTION VIII PROTECTIVE EQUIPMENT TO BE USED

Protective equipment which may be needed when handling the product.

SECTION IX

SPECIAL PRECAUTIONS OR OTHER COMMENTS

Covers any relevant points not previously mentioned.

ADDITIONAL COMMENTS

Containers should be either reconditioned by CERTIFIED firms or properly disposed of by APPROVED firms. Disposal of containers should be in accordance with applicable laws and regulations. "EMPTY" drums should not be given to individuals. Serious accidents have resulted from the misuse of "EMPTIED" containers (drums, pails, etc.). Refer to Sections IV and IX.

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ASHLAND CHEMICAL, INC.
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P.O. BOX 2219

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LAST PAGE--SEE ATTACHMENT PAGE ENCLOSED--LAST PAGE



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24-HOUR Emergency Telephone 1(800) 274-5263 or 1(800) ASHLAND

000629

DAMPENING SOLUTION 9010

Page: 2

SECTION V-HEALTH HAZARD DATA (Continued)

SKIN - EXPOSURE MAY CAUSE MILD SKIN IRRITATION, SYMPTOMS MAY INCLUDE REDNESS AND BURNING.
CAN BE ABSORBED IN TOXIC AMOUNTS, ESPECIALLY FROM PROLONGED OR REPEATED EXPOSURE.
BREATHING - EXCESSIVE INHALATION OF VAPORS CAN CAUSE NASAL AND RESPIRATORY IRRITATION AND CENTRAL NERVOUS SYSTEM
EFFECTS INCLUDING DIZZINESS, WEAKNESS, FATIGUE, NAUSEA, HEADACHE AND POSSIBLE UNCONSCIOUSNESS.
SWALLOWING - CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, AND DIARRHEA.

FIRST AID:

- IF ON SKIN: REMOVE CONTAMINATED CLOTHING. WASH EXPOSED AREA WITH SOAP AND WATER. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION.
- IF IN EYES: IF SYMPTOMS DEVELOP, MOVE INDIVIDUAL AWAY FROM EXPOSURE AND INTO FRESH AIR. FLUSH EYES FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS APART.
- IF SWALLOWED: IMMEDIATELY DRINK TWO GLASSES OF WATER AND INDUCE VOMITING BY EITHER GIVING IPECAC SYRUP OR BY-PLACING FINGER AT BACK OF THROAT. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL ATTENTION IMMEDIATELY.
- IF BREATHED: IF AFFECTED, REMOVE INDIVIDUAL TO FRESH AIR. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. IF BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION. KEEP PERSON WARM, QUIET, AND GET MEDICAL ATTENTION.

PRIMARY ROUTE(S) OF ENTRY:

INHALATION, SKIN ABSORPTION, SKIN CONTACT

EFFECTS OF CHRONIC OVEREXPOSURE:

OVEREXPOSURE TO THIS MATERIAL (OR ITS COMPONENTS) HAS APPARENTLY BEEN FOUND TO CAUSE THE FOLLOWING EFFECTS IN LABORATORY ANIMALS:, BLOOD ABNORMALITIES, KIDNEY DAMAGE, SPLEEN DAMAGE, LIVER ABNORMALITIES

SECTION VI-REACTIVITY DATA

HAZARDOUS POLYMERIZATION: CANNOT OCCUR

STABILITY: STABLE

INCOMPATIBILITY: AVOID CONTACT WITH:, STRONG OXIDIZING AGENTS

SECTION VII-SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

SMALL SPILL: ABSORB LIQUID ON VERMICULITE, FLOOR ABSORBENT OR OTHER ABSORBENT MATERIAL.

LARGE SPILL: ELIMINATE ALL IGNITION SOURCES (FLARES, FLAMES INCLUDING PILOT LIGHTS, ELECTRICAL SPARKS). PERSONS
NOT WEARING PROTECTIVE EQUIPMENT SHOULD BE EXCLUDED FROM AREA OF SPILL UNTIL CLEAN-UP HAS BEEN COMPLETED.
STOP SPILL AT SOURCE. PREVENT FROM ENTERING DRAINS, SEWERS, STREAMS OR OTHER BODIES OF WATER.PREVENT FROM
SPREADING. IF RUNOFF OCCURS, NOTIFY AUTHORITIES AS REQUIRED. PUMP OR VACUUM TRANSFER SPILLED PRODUCT TO
CLEAN CONTAINERS FOR RECOVERY. ABSORB UNRECOVERABLE PRODUCT.TRANSFER CONTAMINATED ABSORBENT, SOIL AND
OTHER MATERIALS TO CONTAINERS FOR DISPOSAL.

WASTE DISPOSAL METHOD:

SMALL SPILL: DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. LARGE SPILL: DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

SECTION VIII-PROTECTIVE EQUIPMENT TO BE.USED

RESPIRATORY PROTECTION: IF OVEREXPOSURE HAS BEEN DETERMINED OR DOCUMENTED, A NIOSH/MSHA JOINTLY APPROVED AIR SUPPLIED RESPIRATOR IS ADVISED IN ABSENCE OF PROPER ENVIRONMENTAL CONTROL. OSHA REGULATIONS ALSO PERMIT OTHER NIOSH/MSHA RESPIRATORS UNDER SPECIFIED CONDITIONS. (SEE YOUR SAFETY EQUIPMENT SUPPLIER). ENGINEERING OR ADMINISTRATIVE CONTROLS SHOULD BE IMPLEMENTED TO REDUCE EXPOSURE.

VENTILATION: PROVIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL EXHAUST) VENTILATION TO MAINTAIN EXPOSURE BELOW LEVEL OF OVEREXPOSURE (FROM KNOWN, SUSPECTED OR APPARENT ADVERSE EFFECTS)

PROTECTIVE GLOVES: WEAR RESISTANT GLOVES (CONSULT YOUR SAFETY EQUIPMENT SUPPLIER).

EYE PROTECTION: CHEMICAL SPLASH GOGGLES IN COMPLIANCE WITH OSHA REGULATIONS ARE ADVISED: HOWEVER, OSHA REGULATIONS ALSO PERMIT OTHER TYPE SAFETY GLASSES. (CONSULT YOUR SAFETY EQUIPMENT SUPPLIER)

OTHER PROTECTIVE EQUIPMENT: TO PREVENT REPEATED OR PROLONGED SKIN CONTACT, WEAR IMPERVIOUS CLOTHING AND BOOTS.

SECTION IX-SPECIAL PRECAUTIONS OR OTHER COMMENTS

CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR, LIQUID, AND/OR SOLID), ALL HAZARD PRECAUTIONS GIVEN IN THIS DATASHEET MUST BE OBSERVED.

WARNING!!! SUDDEN RELEASE OF HOT ORGANIC CHEMICAL VAPORS OR MISTS FROM PROCESS EQUIPMENT OPERATING AT ELEVATED TEMPERATURE AND PRESSURE, OR SUDDEN INGRESS OF AIR INTO VACUUM EQUIPMENT, MAY RESULT IN IGNITIONS WITHOUT THE PRESENCE OF OBVIOUS IGNITION SOURCES. PUBLISHED "AUTOIGNITION" OR "IGNITION" TEMPERATURE VALUES CANNOT BE TREATED AS SAFE OPERATING TEMPERATURES IN CHEMICAL PROCESSES WITHOUT ANALYSIS OF THE ACTUAL PROCESS CONDITIONS. ANY USE OF THIS PRODUCT IN ELEVATED TEMPERATURE PROCESSES SHOULD BE THOROUGHLY EVALUATED TO ESTABLISH AND MAINTAIN SAFE OPERATING CONDITIONS.

THE INFORMATION ACCUMULATED HEREIN IS BELIEVED TO BE ACCURATE BUT IS NOT WARRANTED TO BE WHETHER ORIGINATING WITH THE COMPANY OR NOT. RECIPIENTS ARE ADVISED TO CONFIRM IN ADVANCE OF NEED THAT THE INFORMATION IS CURRENT, APPLICABLE, AND SUITABLE TO THEIR CIRCUMSTANCES.

⊌002 <

Old etching solution Chty total it? Ran 1/2 - 2 yes. Took it out of noduction.

MATERIAL SAFETY DATA SHEET GENESIS FOUNTAIN SOLUTION

HO

接近逐步逐步的政策, PRODUCT IDENTIFICATION BENEFIELE BENEFIEL

Manufacturer's Name:.....Amerikal Products Corporation Manufacturer's Address:.....950 Tower Road

Mundelein, Illinois 60060-3812

Emergency Telephone:.....(708)-949-8690 USA Emergency Telefax:....(708)-949-8701 USA

Product Identifier:.........GENESIS WO Fountain Solution
Product Use:.......Fountain Solution for Sheet Fed
and Web Offset Lithography

Hazardous Components % CAS# OSHA ACGIH OTHER (OPT) PEL TLV EXPOSURE

There are no ingredients subject to reporting under Section 313 of 40 CFR Part 372.

HMIS HEALTH FLAMMABILITY REACTIVITY PERSONAL PROTECTION

PHYSICAL STATE:....LIQUID

ODOR AND APPEARANCE:......CLEAR BLUE MILD ODOR

EVAPORATION RATE:.......................DOES NOT APPLY

pH:.....4.4

ATTACHMENTLY Page 31 of 48

Ken Rosebnou

MATERIAL SAFETY DATA SHEET PAGE TWO GENESIS FOUNTAIN SOLUTION

VOC per liter at 6 oz per gallon: 2.28 gms/liter* VOC per U.S. gallon as computed in concentrate under method 24:...0.40 lbs per gal * Method 24 data on 6 oz per gallon solution reports <1 gm/liter. The 2.28 gms/liter value was mathematically computed from the results of Method 24 analysis of the

FIRE AND EXPLOSION DATA

葼譺薂磃瘷霯逫鼔莻寏蕠鎲艞嘫蜛弬弳莶嵏悐潊汄渁篍彮禭焋趤潊泲谳삤幎聺窚豾蛪潊汯潊汃ヌ茱臦盬霃龗顁娕暣辥踾蒾囮敁滵濣戭婒羐 FLASHPOINT AND METHOD OF

DETERMINATION.....>200 deg F CC ASTM D93-80

UPPER EXPLOSION LIMIT (% BY VOL) .. N.A LOWER EXPLOSION LIMIT (% BY VOL)..N.A

AUTO-IGNITION TEMPERATURE.......Not available

FLAMMABILITY CLASSIFICATION.....1

dry chemical, CO2 or "alcohol" free foam.

SPECIAL FIRE FIGHTING PROCEDURES.. Wear self-contained

breathing apparatus and full protective clothing. Apply foam from a safe distance to cool container and protect surrounding area.

UNUSUAL FIRE AND EXPLOSION

HAZARDS.....None

薆籔蘪蘪蕠蕠蕠蕠薒薆邎荾譺蒤繠荾猉蒤嶣髿娞羐羐豯潊滐潊潊蒤嵡潊獇嵡潊祶竤湬韄媙竤嚝蔱蔱薒薆邎浵嵡萟潊渁

REACTIVITY DATA

葇豯岌牃蕠蓌錗臸錗梥巭詺箳滐娭揬ççऽ毝瓱蒤茦萟顈蠂絑巀礈雴埀譺巀莈鏃獥蕠踥嵏盚篗ן溬嶣嵔撹獇淋ݢ岌埊巀渃浘浘淭臩

CHEMICAL STABILITY.....Stable

INCOMPATIBLE MATERIALS.....Store away from oxidizing materials.

HAZARDOUS DECOMPOSITION

PRODUCTS.....Carbon dioxide and carbon monoxide during combustion.

HAZARDOUS POLYMERIZATION......Will not occur

CONDITIONS TO AVOID......None

嫯邌銴菨猣潊獇て蒑砓眔梊趗旕妶寏椞姷蒤渃秂秂秂秂椞潊潊潊潊潊浵綊庡瘱匧蚟芵潊潊峲樉殎汳쮼窛匥遻岪镹跦獥銊聣擮魱瓸遻軞萟猉

HEALTH HAZARDS

ROUTES OF ENTRY

SKIN CONTACT.....Primary INHALATION..... Secondary

MATERIAL SAFETY DATA SHEET PAGE THREE GENESIS FOUNTAIN SOLUTION

INGESTION....Unlikely

HEALTH HAZARDS (ACUTE AND

CHRONIC).....Undiluted concentrate can cause severe eye irritation. Liquid vapor/mist may irritate the skin, eyes, nasal passages and throat. Contact lenses should not be worn. No irritation is likely after brief skin contact, but may be absorbed through skin. In high concentrations vapors/mists may be absorbed in harmful amounts. This product may be harmful if swallowed. Ingestion may cause nausea, vomiting, diarrhea, dizziness, drowsiness.

MEDICAL CONDITIONS AGGRAVATED

BY EXPOSURE...Pre-existing dermatitis may be aggravated by expexposure to this product.

SPECIFIC FIRST AID

PROCEDURES:...BREATHING: If affected by inhalation of vapor or spray mist, remove to fresh air. If breathing has stopped, apply artificial respiration. EYES: Remove contact lenses and hold

eyelids open and flush eyes with abundant water. Seek medical attention. SKIN: Flush contaminated skin with

abundant water.

INGESTION: If ingested, give plenty of water and induce vomiting. Call a physician immediately.

CARCINOGENICITY

NTP.....NO IARC MONOGRAPHS.....NO

풏窽匧韰藡篗嵡芵忥蒤嵡梊箥沷湠刾隉蒾坙ҳ蒑烼梊萟萟茿茿坹羏滐焋烾敧盢禐淭莻猋氋茿莈倿嵳籃藡薠灢濿浘薒豯搹滐箞蟧逿熋砈膌麍 SPECIAL PRECAUTIONS AND SPILL / LEAK PROCEDURES 蘣穬獚푶鋖蛪豯滐薒蕠兓殩疧砓翐ӽ쥸砓۔潊炗鶭滐汳箥栥渃嵹逧湠奍漑詺跊潊猉閖竤╶椞蓃廀촢嶊騒渳薒霿攐韄熋嵏耊頢肒浝蓔鞂

LEAK AND SPILL PROCEDURES..... Soak up with an absorbent material. Pick up. Clean with water.

WASTE DISPOSAL......Dispose of in accordance with state, local and federal regulations.

MATERIAL SAFETY DATA SHEET PAGE FOUR GENESIS FOUNTAIN SOLUTION

HANDLING PROCEDURES AND

EQUIPMENT.....For industrial use only.

Avoid repeated contact with skin. Use goggles & gloves.

STORAGE PRECAUTIONS......Store in a well ventilated area away from all sources of

heat and combustible materials. Keep container closed when not in use.

SPECIAL PROTECTION INFORMATION / CONTROL MEASURES 篫逄黈薆鎈篴嫯梊裚裚蔱蒤宷豖澃豯蒤蒤喛兓兓兓兓湬贫甇瓽赼趤遾竤銴兟澯簛潊杘굧兓豥瓸逑逬趤嬘篗黕椞烌椞殩槂淭麫昅恧駏埾

RESPIRATORY PROTECTION......Not required under normal use conditions.

VENTILATION......Adequate ventilation required.

PROTECTIVE GLOVES......Chemical resistant

EYE PROTECTION......Safety goggles

OTHER PROTECTIVE EQUIPMENT.... Eye wash station and safety

shower

WORK AND HYGIENIC PRACTICES.... Wash hands after handling. Remove contaminated clothing.

STATE RIGHT TO KNOW 蘣푫蕿搮氉霚豯豯蕠蕠蕠蕠蕠蕠蒤蒤蒤蒤熧熧嵏嵏磀ບ逑逑螁鱁逓瓙蕠顈蒤梊蕠萟萟蕠蕠蕠蕠薒薒霿豯臩

CALIFORNIA PROPOSITION 65

This product contains no levels of listed substances, which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute.

This product is non-photochemically reactive per California South Coast Rule 102.

08/30/93

All components are included in the EPA Toxic Substances Control Act Chemical Substance Inventory.

AMERIKAL

薆菙茰觲蒤犘霯菨鰀涏梊戜嵏錽恏梊梊羐をを瓷贫ズςς乗弳遻袾誔莈ςҳ錽錽梊耾┆٪桬疺唜荲潊耾耾嵡臩藡臦

蘣蠺葼繠禐菨嵳嶐竤澯膎瘷碬籔礈藡葼蔱蒤瘷豥迗遬湠潊똤朶풄嵏盬篴繠梥豜筬坓鉝跓枼裧碵霠瑸竳趤錵獇팣殎窚庬遬趤돆靔麫閖찞藡魱趤

DATE PREPARED.....August 30, 1993

Amerikal Products Corporation has compiled the information and recommendations contained in this Material Safety Data Sheet from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the MSDS was prepared. No warranty, guaranty or representation is made as to the correctness or sufficiency of the information. The user of this product must decide for itself what safety measures are necessary to safely use this product; alone or in combination with other products.

013-011-0210 '233339 - HPS/GART TIMBROUK E '191339/4180'

PAGE: UUZ-UUD

Etching - Replaced Genesis
worth Used to Krep ink off
plates for printing

MATERIAL SAFETY DATA SHEET

DATE PREPARED: 1/01/99

ANCHOR LITHKENKO 50 INDUSTRIAL LOOP NORTH ORANGE PARK, FL 32073

MEDICAL EMERGENCY PHONE NUMBER * (904) 264-3500 * THIS NUMBER IS AVAILABLE DAYS, NIGHTS, WEEKENDS, AND HOLIDAYS. TRANSPORTATION EMERGENCY PHONE NUMBER * (800) 424-9300 * CHENTREC.

THIS MSDS COMPLIES WITH 29 CFR 1910-1200, HAZARD COMMUNICATION STANDARD. FEDERAL LAW REQUIRES PERSONS RECEIVING THE MATERIAL SAFETY DATA SHEET TO STUDY IT CAREFULLY, BECOME AWARE OF HAZARDS, IF ANY, OF THE PRODUCT INVOLVED. IN THE INTEREST OF SAFETY YOU SHOULD: (1) NOTIFY YOUR EMPLOYEES. AGENTS, AND CONTRACTORS OF THE INFORMATION ON THIS SHEET; (2) FURNISH A COPY TO EACH OF YOUR CUSTOMERS FOR THE PRODUCT; AND (3) REQUEST YOUR CUSTOMERS TO INFORM THEIR EMPLOYEES AND CUSTOMERS AS WELL.

FOR INDUSTRIAL USE ONLY

USE ONLY AS DIRECTED

DO NOT TAKE INTERNALLY

SECTION I PRODUCT IDENTIFICATION

PRODUCT NAME: EMERALD PREMIUM DAQ

PRODUCT NUMBER: 2879

DOT PROPER SHIPPING NAME: NOT REGULATED

EMERALD PREMIUM DAQ

DOT NUMBER: NONE

DATE OF LAST MSDS SHIPMENT: N/A

MSDS PREPARED BY: L. M. ANDERSON

HMIS INFORMATION:

HEALTH - 1

FLAMMABILITY - 1

REACTIVITY - 0

PERSONAL PROTECTIVE EQUIPMENT - B

HAZARD INDEX: 4 = SEVERE 3 = SERIOUS 2 = MODERATE 1 = SLIGHT 0 = LEAST. SAFETY GLASSES & GLOVES

	SECTION II	HAZ	ARDOUS	INE	REDIENTS	;	
MATERIAL DESCRIPTION	CAS#	% BY WT.		ACGIH TLV(THA) PPM		OSHA PEL PPM	OTHER LIMITS
ACETIC ACID 702	/64-19-7		<5		10.00/	10.00/	
CAUSTIC SODA	/1310-73-2	7	< 5	1	2.00/	2.00/	
(50% SOLUTION)	1			1		· · · · · · · · ·	(AS DUST)
SOLVENT EB	/111-76-2	1	8 - 56	1	25-00/	25.00/	
(SYN.: 2-BUTOXYETHANOL)	1	1		•	1		ACGIH - SKIN
	1	1		1	1		ISHA - SKIN
	1	1		1	1		IIOSH - 5 PPM:
	1	1		1	- 1		OR 10 HR DAY.
		/		1	1		O HR HORK WEE!
SOLVENT EP	/2807-30-9	1	1 6.44		/NOT EST/NOT EST/		
(SYN.: 2-PROPOXYETHANOL)/				1	/	12	ESPPH-SKIN(MFR

la gal = 3.11 lbs/gal x 120 gals used = 373.20 Voc Used *pur chased additional 55 gal drums from another distributor

PAGE

2

EMERALD PREMIUM DAQ

THIS PRODUCT DOES NOT CONTAIN ANY CARCINOGENS OR SUSPECTED CARCINOGENS WHICH ARE NOTED BY NTP, IARC OR OSHA-Z IN THE OTHER LIMITS COLUMN.

SECTION III PHYSICAL DATA

BUILING RANGE: HIGH- 340.0 F

LOW- 212.0 F

VAPOR PRESSURE: NOT AVAILABLE VAPOR DENSITY: HEAVIER THAN AIR

EVAPORATION RATE: SLOWER THAN BUTYL ACETATE

WEIGHT LBS./GAL.:

8.7

METHOD 24 VOC: 3.11 LBS./GAL.

PHYSICAL STATE: LIQUID

APPEARANCE: GREEN

DDDR: MILD

PH: 3.9

WATER SGLUBILITY: 100%

CALIFORNIA SCAQMO RULE 102: NON

NONPHOTOCHEMICALLY REACTIVE

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: NONE

FLASHPOINT TCC: GREATER THAN 200 DEGREES F.

EXTINGUISHING MEDIA: USE FOAM, CO2, OR DRY CHEMICAL FIRE APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZAROS: NONE.

FIRE FIGHTING PROCEDURES: FIRE FIGHTERS SHOULD WEAR SELF-CONTAINED BREATH-ING APPARATUS AND FULL PROTECTIVE CLOTHING. USE WATER SPRAY TO COOL NEARBY CONTAINERS AND STRUCTURES EXPOSED TO FIRE.

SECTION V EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: GENTLY FLUSH HITH LARGE QUANTITIES OF WATER FOR AT LEAST 15 MINUTES AND SEEK IMMEDIATE MEDICAL ATTENTION.

SKIN CONTACT: REMOVE CONTAMINATED CLOTHING (WASH BEFORE RE-USE), WASH AFFECTED SKIN AREAS WITH SOAP AND WATER AND SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.

INHALATION: REMOVE VICTIM TO FRESH AIR.

INGESTION: INDUCE VONITING AND SEEK MEDICAL ATTENTION IMMEDIATELY.

PAGE

3

EMERALD PREMIUM DAQ

SECTION VI HEALTH INFORMATION, ACUTE AND CHRONIC

EYES: DIRECT CONTACT MAY CAUSE BURNING, TEARING AND REDNESS.

SKIN EFFECTS: PROLONGED OR REPEATED SKIN CONTACT MAY RESULT IN DERMATITIS. MAY BE ABSORBED THROUGH SKIN.

INHALATION: NO SYMPTOMS NORMALLY SEEN WHEN THIS PRODUCT IS USED IN ITS INTENDED HANNER.

PRIMARY ROUTES OF ENTRY: SKIN AND/OR EYE CONTACT.

SYSTEMIC AND OTHER EFFECTS: CHRONIC OVEREXPOSURE TO SOLVENT EB IN HIGH CONCENTRATIONS HAS CAUSED ANEMIA, LIVER AND BLOOD ABNORMALITIES, AND KIDNEY AND LUNG DISEASE IN LABORATORY ANIMALS: MAY CAUSE MATERNAL TOXICITY. CHRONIC OVEREXPOSURE TO SOLVENT EP IN HIGH CONCENTRATIONS HAS CAUSED BLOOD AND LIVER ABNORMALITIES, AND KIDNEY AND SPLEEN DAMAGE IN LABORATORY ANIMALS.

SECTION VII REACTIVITY DATA

STABILITY: STABLE.

CONDITIONS TO AVOID: NONE.

MATERIALS TO AVOID: STRONG DXIDIZING AGENTS.

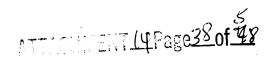
HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION IN THE PRESENCE OF AIR MAY YIELD CARBON MONOXIDE AND/OR CARBON DIOXIDE.

HAZARDOUS POLYMERIZATION: WILL NOT GCCUR. CONDITIONS TO AVOID: NONE.

SECTION VIII SPILL AND LEAK PROCEDURES

PRECAUTIONS IN CASE OF RELEASE OR SPILL: STOP AND/OR CONTAIN DISCHARGE IF IT MAY BE DONE SAFELY. KEEP ALL SQURCES OF IGNITION AWAY AND USE NON-SPARKING TOOLS FOR CLEANUP. VENTILATE AREA OF SPILL AND COVER WITH INERT MATERIAL TO REDUCE FUMES IF NECESSARY. KEEP OUT OF DRAINS, SEWERS OR WATERWAYS; NOTIFY LOCAL HEALTH AND POLLUTION CONTROL AGENCIES, AND CALL SPILL RESPONSE TEAMS IF LARGE SPILL.

WASTE DISPOSAL METHOD: DISPOSE OF PRODUCT IN ACCORDANCE WITH APPLICABLE LOCAL, COUNTY, STATE, FEDERAL REGULATIONS.



PAGE -

EMERALD PREMIUM DAQ

SECTION IX PERSONAL PROTECTION AND STORAGE PRECAUTIONS

RESPIRATORY PROTECTION: NONE NORMALLY NECESSARY WHEN THIS PRODUCT IS USED IN ITS INTENDED MANNER.

PROTECTIVE GLOVES: THE USE OF GLOVES WHICH ARE IMPERMEABLE TO THE SPECIFIC MATERIAL HANDLED IS ADVISED TO PREVENT SKIN IRRITATION AND ABSORPTION.

EYE PROTECTION: SAFETY GLASSES ARE RECOMMENDED TO SAFEGUARD AGAINST POTENTIAL EYE CONTACT, IRRITATION OR INJURY.

OTHER PROTECTIVE EQUIPMENT: THE AVAILABILITY OF EYE WASHES AND SAFETY SHOWERS IN WORK AREAS IS RECOMMENDED.

HANDLING AND STORAGE PRECAUTIONS: KEEP PRODUCT CONTAINERS CLOSED WHEN NOT IN USE.

OTHER PRECAUTIONS: EMPTIED CONTAINERS MAY RETAIN PRODUCT RESIDUES; THERE-FORE, ALL HAZARD PRECAUTIONS GIVEN IN THIS DATA SHEET SHOULD BE DBSERVED. CAUTION!

SECTION X SECTION 313 TOXIC CHEMICALS

FOLLOWING IS A DESCRIPTION OF CERTAIN HYDROCARBON SOLVENTS WHICH CONTAIN COMPONENTS SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III, SECTION 313 - 40 CFR 372 (CHECK SECTION II INGREDIENTS AND LIST BELOW TO DETERMINE IF ANY OF THESE APPLY TO THIS PRODUCT):

AROMATIC 100 MAY CONTAIN UP TO 7% BY WEIGHT XYLENE (CAS#1330-20-7), UP TO 21% BY WEIGHT 1,2,4-TRIMETHYLBENZENE (CAS#95-63-6), AND UP TO 3% BY WEIGHT CUMENE (CAS#98-82-8).

AROMATIC 150 MAY CONTAIN UP TO 2% BY WEIGHT 1,2,4-TRIMETHYLBENZENE (CAS#95-63-6) AND UP TO 10% BY WEIGHT NAPHTHALENE (CAS#91-20-3).

SOLVENT D MAY CONTAIN UP TO 3.5% BY WEIGHT XYLENE (CAS#1330-20-1), UP TO 1% BY WEIGHT NAPHTHALENE (CAS#91-20-3), 15.4% TO 18.9% BY WEIGHT 1,2,4-TRIMETHYLBENZENE (CAS#95-63-6), AND UP TO 2.6% BY WEIGHT CUMENE (CAS#98-82-8).

THIS PRODUCT CONTAINS THE FOLLOWING CHEMICALS AND/OR HYDROCARBON SOLVENTS WITH COMPONENTS WHICH ARE SUBJECT TO SARA 313 REQUIREMENTS:

SOLVENT EB

111-76-2 2807-30-9

B.56 6.44

THE OPINIONS EXPRESSED HEREIN ARE THOSE OF QUALIFIED EXPERTS WITHIN THE MANUFACTURER AND ITS SUPPLIERS. WE BELIEVE THAT THE INFORMATION CONTAINED HEREIN IS CURRENT AS OF THE DATE OF THIS MATERIAL SAFETY DATA SHEET. SINCE THE USE OF THIS INFORMATION AND THESE OPINIONS AND THE CONDITIONS OF USE OF THE PRODUCT ARE NOT WITHIN THE CONTROL OF THE MANUFACTURER, IT IS THE USER'S OBLIGATION TO DETERMINE THE CONDITIONS OF SAFE USE OF THE PRODUCT.

PAGE

5

EMERALD PREMIUM DAQ

FORNIA TO CAUSE CANCER.

SPECIAL CALIFORNIA PROPOSITION 65 WARNINGS
THE FOLLOWING INFORMATION IS REQUIRED BY THE STATE OF CALIFORNIA'S SAFE
DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986, OR PROPOSITION 65. THIS
CALIFORNIA REGULATION DOES NOT ADDRESS DI MINIMUS LEVELS; THEREFORE, EVEN
TRACE AMOUNTS OF THE CHEMICALS INCLUDED ON PROPOSITION 65'S LIST OF CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER OR REPRODUCTIVE TOXICITY MUST BE NOTED WITH THE "SAFE HARBOR" WORDING. WARNING: IF THIS
PRODUCT CONTAINS AROMATIC 100 OR LACOLENE-CHECK THE INGREDIENTS LISTED IN
SECTION 11 OF THIS MSDS—THESE CHEMICALS CONTAIN BOTH BENZENE, KNOWN TO THE
STATE OF CALIFORNIA TO CAUSE CANCER, AND TOLUENE, KNOWN TO THE STATE OF
CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. IF THIS
PRODUCT CONTAINS YMEP NAPHTHA—CHECK THE INGREDIENTS LISTED IN SECTION II
OF THIS MSDS—YMEP NAPHTHA CONTAINS BENZENE, KNOWN TO THE STATE OF CALI—



ASHLAND CHEMICAL, INC. Subsidiary Of Ashland Oil, Inc. P.O. BOX 2219 COLUMBUS, OHIO 43216 (614) 889-3333

24-HOUR Emergency Telephoné 1(800) 274-5263 o 1(800) ASHLAND

000461

GLYCOL ETHER EP

Coolant

Page:

THIS MSDS COMPLIES WITH 29 CFR 1910.1200 (THE HAZARD COMMUNICATION STANDARD)

forold press;

05 50 015 7638600-

No figureted

Product Name: GLYCOL ETHER EP CAS NUMBER: 2807-30-9

ROSSE LITHOGRAPHING CO INC 2100 WYANDOTTE

Data Sheet No: 0102814-002.000 Prepared: 12/22/88 Prepared:

KANSAS CITY

MO 64108

04/21/86 Supersedes:

PRODUCT: 3405900 INVOICE: 675521 INVOICE DATE: 05/27/92 TO: ROSSE LITHOGRAPHING CO INC 2100 WYANDOTTE KANSAS CITY MO 64

MO 64108

ATTN: PLANT MGR./SAFETY DIR.

SECTION I-PRODUCT IDENTIFICATION

General or Generic ID: GLYCOL ETHER

DOT Hazard Classification: COMBUSTIBLE (173.115)

SECTION 11-COMPONENTS

IF PRESENT, IARC, NTP AND OSHA CARCINOGENS AND CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III SECTION 313 ARE IDENTIFIED IN THIS SECTION.

SEE DEFINITION PAGE FOR CLARIFICATION

INGREDIENT

% (by WT)

PEL

TLV

Note

ETHYLENE GLYCOL MONOPROPYL ETHER 125%

100

CECTLON LIL DUVELCAL

(1)

Notes:

(1) PEL/TLV NOT ESTABLISHED FOR THIS MATERIAL

SUPPLIER RECOMMENDS A WORKPLACE EXPOSURE LIMIT OF 25 PPM-TWA, "SKIN NOTATION".

THIS CHEMICAL IS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF SARA TITLE III.

	SECTION TITE PHYSICAL DATA			
Boiling Point	for PRODUCT	(301.00 - 149.44 - @	308.30 Deg F 153.50 Deg C) 760.00 mm Hg
Vapor Pressure	for PRODUCT		@ (1.30 mm Hg 77.00 Deg F 25.00 Deg C)
Specific Vapor Density	AIR = 1			3.6
Specific Gravity		_	e (.913 68.00 Deg F 20.00 Deg C)
Percent Volatiles				>95%
Evaporation Rate	(N-BUTYL ACETATE = 1)			.22

SECTION IV-FIRE AND EXPLOSION INFORMATION

FLASH POINT(TOC

120.0 Deg F

48.9 Deg C)

EXPLOSIVE LIMIT

(PRODUCT)

LOWER -

EXTINGUISHING MEDIA: ALCOHOL FOAM OR WATER FOG OR CARBON DIOXIDE OR DRY CHEMICAL

HAZARDOUS DECOMPOSITION PRODUCTS: MAY FORM TOXIC MATERIALS:, CARBON DIOXIDE AND CARBON MONOXIDE, VARIOUS HYDROCARBONS, ETC.

FIREFIGHTING PROCEDURES: WEAR SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE DEMAND MODE WHEN FIGHTING FIRES.

SPECIAL FIRE & EXPLOSION HAZARDS: VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG THE GROUND OR BE MOVED BY VENTILATION AND IGNITED BY HEAT, PILOT LIGHTS, OTHER FLAMES AND IGNITION SOURCES AT LOCATIONS DISTANT FROM MATERIAL HANDLING POINT.

NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPLOSIVELY.

ALL FIVE GALLON PAILS AND LARGER METAL CONTAINERS INCLUDING TANK CARS AND TANK TRUCKS SHOULD BE GROUNDED AND/OR BONDED WHEN MATERIAL IS TRANSFERRED.

NFPA CODES:

HEALTH- 1

FLAMMABILITY- 2

REACTIVITY- 0

SECTION V-HEALTH HAZARD DATA

PERMISSIBLE EXPOSURE LEVEL: NOT ESTABLISHED.

EFFECTS OF ACUTE OVEREXPOSURE:

EYES - CAN CAUSE SEVERE IRRITATION, REDNESS, TEARING, BLURRED VISION. SKIN - CAN CAUSE IRRITATION. CAN BE ABSORBED IN TOXIC AMOUNTS, ESPECIALLY FROM PROLONGED OR REPEATED EXPOSURE.

CONTINUED ON PAGE: 2

148 and 41014



ASHLAND CHEMICAL, INC. Subsidiary Of Ashland Oil, Inc. P.O. BOX 2219 COLUMBUS, OHIO 43216

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000461

GLYCOL ETHER EP

Page:

THIS MSDS COMPLIES WITH 29 CFR 1910.1200 (THE HAZARD COMMUNICATION STANDARD)

Product Name: GLYCOL ETHER EP CAS NUMBER: 2807-30-9

ROSSE LITHOGRAPHING CO INC 2100 WYANDOTTE

KANSAS CITY

MO 64108

05 50 015 7638600-

Data Sheet No: 0102814-002.000 Prepared: 12/22/88

Supersedes: 04/21/86

PRODUCT: 3405900 INVOICE: 675521 INVOICE DATE: 05/27/92 TO: ROSSE LITHOGRAPHING CO INC 2100 WYANDOTTE KANSAS CITY MO 64

MO 64108

ATTN: PLANT MGR./SAFETY DIR.

SECTION I-PRODUCT IDENTIFICATION

General or Generic ID: GLYCOL ETHER

DOT Hazard Classification: COMBUSTIBLE (173.115)

SECTION II - COMPONENTS

IF PRESENT, IARC, NTP AND OSHA CARCINOGENS AND CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III SECTION 313 ARE IDENTIFIED IN THIS SECTION.

SEE DEFINITION PAGE FOR CLARIFICATION

INGREDIENT

% (by WT)

PEL

TLV

Note

ETHYLENE GLYCOL MONOPROPYL ETHER CAS #: 2807-30-9

100

(1)

Notes:

(1) PEL/TLV NOT ESTABLISHED FOR THIS MATERIAL

SUPPLIER RECOMMENDS A WORKPLACE EXPOSURE LIMIT OF 25 PPM-TWA, "SKIN NOTATION".

THIS CHEMICAL IS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF SARA TITLE III.

	SECTION III-PHYSIC	AL DATA	
Boiling Point	for PRODUCT	301 (149	0.00 - 308.30 Deg F 0.44 - 153.50 Deg C) @ 760.00 mm Hg
Vapor Pressure	for PRODUCT		1.30 mm Hg 9 77.00 Deg F (25.00 Deg C)
Specific Vapor Density	AIR = 1		3.6
Specific Gravity			.913 @ 68.00 Deg F (20.00 Deg C)
Percent Volatiles			>95%
Evaporation Rate	(N-BUTYL ACETATE = 1)		.22

SECTION IV-FIRE AND EXPLOSION INFORMATION

FLASH POINT(TOC

120.0 Deg F

EXPLOSIVE LIMIT

(PRODUCT)

LOWER - 1.3%

EXTINGUISHING MEDIA: ALCOHOL FOAM OR WATER FOG OR CARBON DIOXIDE OR DRY CHEMICAL

HAZARDOUS DECOMPOSITION PRODUCTS: MAY FORM TOXIC MATERIALS:, CARBON DIOXIDE AND CARBON MONOXIDE, VARIOUS HYDROCARBONS, ETC.

FIREFIGHTING PROCEDURES: WEAR SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE DEMAND MODE WHEN FIGHTING FIRES.

SPECIAL FIRE & EXPLOSION HAZARDS: VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG THE GROUND OR BE MOVED BY VENTILATION AND IGNITED BY HEAT, PILOT LIGHTS, OTHER FLAMES AND IGNITION SOURCES AT LOCATIONS DISTANT FROM MATERIAL HANDLING POINT.

NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPLOSIVELY.

ALL FIVE GALLON PAILS AND LARGER METAL CONTAINERS INCLUDING TANK CARS AND TANK TRUCKS SHOULD BE GROUNDED AND/OR BONDED WHEN MATERIAL IS TRANSFERRED.

NFPA CODES:

HEALTH- 1

FLAMMABILITY- 2

REACTIVITY- 0

SECTION V-HEALTH HAZARD DATA

PERMISSIBLE EXPOSURE LEVEL: NOT ESTABLISHED.

EFFECTS OF ACUTE OVEREXPOSURE:

EYES - CAN CAUSE SEVERE IRRITATION, REDNESS, TEARING, BLURRED VISION. SKIN - CAN CAUSE IRRITATION. CAN BE ABSORBED IN TOXIC AMOUNTS, ESPECIALLY FROM PROLONGED OR REPEATED EXPOSURE.

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COLUMBUS, OHIO 43216
(614) 889-3333

Emergency Telephone 1(800) 274-5263 o 1(800) ASHLAND

24-HOUR

DEFINITIONS

This definition page is intended for use with Material Safety Data Sheets supplied by the Ashland Chemical Company. Recipients of these data sheets should consult the OSHA Safety and Health Standards (29 CFR 1910), particularly subpart G — Occupational Health and Environmental Control, and subpart I — Personal Protective Equipment, for general guidance on control of potential Occupational Health and Safety Hazards.

SECTION I PRODUCT IDENTIFICATION

GENERAL OR GENERIC ID: Chemical family or product description.

DOT HAZARD CLASSIFICATION: Product meets DOT criteria for hazards listed.

SECTION II COMPONENTS

Components are listed in this section if they present a physical or health hazard and are present at or above 1% in the mixture. If a component is identified as a CARCINOGEN by NTP, IARC, or OSHA as of the date on the MSDS, it will be listed and footnoted in this section when present at or above 0.1% in the product. Negative conclusions concerning carcinogenicity are not reported. Additional health information may be found in Section V. Components subject to the reporting requirements of Section 313 of SARA Title III are identified in the footnotes in this section, along with typical percentages. Other components may be listed if deemed appropriate.

Exposure recommendations are for components. OSHA Permissible Exposure Limits (PELS) and American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLVs) appear on the line with the component identification. Other recommendations appear as footnotes.

SECTION III PHYSICAL DATA

BOILING POINT: Of product if known. The lowest value of the components is listed for mixtures.

VAPOR PRESSURE: Of product if known. The highest value of the components is listed for mixtures.

SPECIFIC VAPOR DENSITY: Compared to AIR = 1. If the Specific Vapor Density of a product is not known, the value is expressed as lighter or greater than air.

SPECIFIC GRAVITY: Compared to WATER = 1. If Specific Gravity of product is not known, the value is expressed as less than or greater than water.

pH: If applicable.

PERCENT VOLATILES: Percentage of material with initial boiling point below 425 degrees Fahrenheit and vapor pressure above 0.1mm Hg at 68 F.

EVAPORATION RATE: Indicated as faster or slower than ETHYL ETHER, unless otherwise stated.

SECTION IV FIRE AND EXPLOSION DATA

FLASH POINT: Method identified.

EXPLOSION LIMITS: For product if known. The lowset value of the components is listed for mixtures.

HAZARDOUS DECOMPOSITION PRODUCTS: Known or expected hazardous products resulting from heating, burning or other reactions.

SECTION IV (cont.)

EXTINGUISHING MEDIA: Following National Fire Protection Association criteria.

FIREFIGHTING PROCEDURES: Minimum equipment to protect firefighters from toxic products of vaporization, combustion or decomposition in fire situations. Other firefighting hazards may also be indicated.

SPECIAL FIRE AND EXPLOSION HAZARDS: States hazards not covered by other sections.

NFPA CODES: Hazard ratings assigned by the National Fire Protection Association.

SECTION V

HEALTH HAZARD DATA

PERMISSIBLE EXPOSURE LIMIT: For product.

THRESHOLD LIMIT VALUE: For product.

EFFECTS OF ACUTE OVEREXPOSURE: Potential local and systemic effects due to single or short term overexposure to the eyes and skin or through inhalation or ingestion.

EFFECTS OF CHRONIC OVEREXPOSURE: Potential local and systemic effects due to repeated or long term overexposure to the eyes and skin or through inhalation or ingestion.

FIRST AID: Procedures to be followed when dealing with accidental overexposure.

PRIMARY ROUTE OF ENTRY: Based on properties and expected use.

SECTION VI

REACTIVITY DATA

HAZARDOUS POLYMERIZATION: Conditions to avoid to prevent hazardous polymerization resulting in a large release of energy.

STABILITY: Conditions to avoid to prevent hazardous or violent decomposition.

INCOMPATIBILITY: Materials and conditions to avoid to prevent hazardous reactions.

SECTION VII

SPILL OR LEAK PROCEDURES

Reasonable precautions to be taken and methods of containment, clean-up and disposal. Consult federal, state and local regulations for accepted procedures and any reporting or notification requirements.

SECTION VIII PROTECTIVE EQUIPMENT TO BE USED

Protective equipment which may be needed when handling the product.

SECTION IX

SPECIAL PRECAUTIONS OR OTHER COMMENTS

Covers any relevant points not previously mentioned.

ADDITIONAL COMMENTS

Containers should be either reconditioned by CERTIFIED firms or properly disposed of by APPROVED firms. Disposal of containers should be in accordance with applicable laws and regulations. "EMPTY" drums should not be given to individuals. Serious accidents have resulted from the misuse of "EMPTIED" containers (drums, pails, etc.). Refer to Sections IV and IX.

ATTACHESTIT/Page43of

"Agueous Coating" (08)

CORK INDUSTRIES, INC.

500 Kaiser Drive • Folcroft, PA 19032 • (610) 522-9550 • FAX (610) 522-9659

MATERIAL SAFETY DATA SHEET

for plastic or Virgl type surface Use on Styrene type Int

4

SECTION 1: PRODUCT IDENTIFICATION

Material Name (Trade Name): CK-303

Manufacturer: Cork Industries, Inc. Folcroft, PA. 19032

Chemical Name: Aqueous Acrylic Emulsion

Chemical Family: Polymer Dispersion

Emergency Telephone Numbers

Sales & Product Info Phone

1-610-522-9550

1-610-522-9550

SECTION 2: INGREDIENTS

<u>Ingredient</u>	Cas Number	Weight %
Acrylic Emulsion Polymer	Proprietary	30 - 60
Water	7732-18-5	30 - 60
Propylene Glycol	57-55-6	1 - 4
Ammonium Hydroxide (Ca., N.J., Ma.)	1336-21-6	1-3
Wax	Proprietary	2-5

The specific chemical identity of any substance not identified with a chemical abstract number is being held as a trade secret.

SECTION 3: PHYSICAL DATA

Boiling Point Approx. 212° F. **Melting Point** Not applicable **Specific Gravity** $1.03 \pm .02$ Solubility in Water. Miscible Vapor Pressure Of Water **Vapor Density** Of Water Vapor % Volatiles 50 - 75 Ha 7.2 - 9.0**Appearance** Translucent Odor Sweet, Ammonical V.O.C. Lbs. / Gal.

SECTION 4: FIRE AND EXPLOSION DATA

Flash Point:

None

Flammable Limits:

Not applicable

Extinguishing Media:

Water, Carbon Dioxide

Special Fire Fighting Procedures:

When solids in an emulsion burn, water (H20), carbon dioxide (CO2), nitrogen oxides (NOx) (if a nitrogen component is in polymer or additives) and smoke is produced. Pyrolysis products may include acetic acid, acrolein, acetaldehyde and other monomer fragments from depolymerization.

Fire Explosion Hazard:

There are no unusual fire or explosion hazards.



SECTION 7: SPILL, LEAK AND DISPOSAL PROCEDURES

(08

If material is released or spilled, dam up to limit spreading. Mop up or absorb on inert material and place in containers. If spill occurs in enclosed area, ventilate. Polymer may be separated from water by the procedure indicated below.

Note: Spilled emulsion is very slippery. Use care to avoid falls. Latex will leave a film on drying. Remove saturated clothing and wash contacted skin areas with soap and water.

DISPOSAL:

For small spills (probably less than 100 gallons), dilute 50 to 100 fold with water. Wash into industrial sewer. (Warning. Consult local sewer authority before discharging.)

For large quantities, place in settling pond and add ferric chloride and lime. Decant water. Dispose of solids in landfill. Emulsion can be incinerated directly under appropriate conditions.

Care: The products will impart a white milky color to water. When the water is agitated or is turbulent, foaming can result. As supplied or diluted, product material (foam included) when splashed on automobiles or other personal property is difficult to remove if allowed to dry.

All federal, state and local regulations regarding health and pollution should be followed when disposing of contaminated water or recovered material.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation: Provide sufficient ventilation to maintain airborne concentrations below the exposure guideline.

Eye Protection: Use safety goggles when splash potential exists.

Hand Protection: Rubber protective gloves are recommended.

Other: See Sections 4 and 5 for specific health and fire hazard information and protective measures.

SECTION 9: SPECIAL PRECAUTIONS AND HANDLING INFORMATION

Normal cleanliness should be observed. Store in a cool place, avoid freezing.

If headspace ventillation is required, use humified air to reduce skin formation on the emulsion surface.

SECTION 10: ADDITIONAL INFORMATION

The products are not restricted articles according to Department of Transportation and International Air Transport Association regulations.

All components are included in the EPA Toxic Substance Control Act Chemical Substance Inventory.

H.M.I.S.

HEALTH:

1

FLAMMABILITY:

0

REACTIVITY:

Λ

These ratings should be used only as part of H.M.I.S. program.

EPA SARA Title III Hazard Class: None

OSHA HCS Hazard Class: non-OSHA hazardous (29 CFR 1910.1200)

EPA SARA Title III Section 313 (40 CFR 372) Toxic Chemicals present in quantities greater than the "de minimis" level are: None.

Canadian WHMIS Controlled Products classification: not a controlled product.



waver base mothing to report Goes Lite Water used in press; recirculated, filtered + chilled floruse. Do not generate a waste.

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: PURE GUM ARABIC 14 BE

HMIS CODES: H F R P

PRODUCT CODE: 02229

HAZARDOUS COMPOMENTS

MANUFACTURER'S NAME: VARN PRODUCTS

ADDRESS: 905 SOUTH WESTWOOD, ADDISON, ILLINOIS 60101

INFORMATION PHONE: (800) 336-8276 **EMERGENCY PHONE:** (800) 424-9300 NAME OF PREPARER: VARN PRODUCTS CO. DATE REVISED: 10-16-92

REASON REVISED: UPDATE; SUPERSEDES ALL PREVIOUS REVISIONS.

====== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION ========

OCCUPATIONAL EXPOSURE LIMITS

CAS HUMBER OSEA PEL ACGIS TLV OTHER

*** NO REPORTABLE QUANTITIES OF HAZARDOUS INGREDIENTS ARE PRESENT ***

*** No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present. ***

ALL INGREDIENTS ARE LISTED IN THE EPA TECA INVENTORY.

& VOC's

========= SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS ==========

BOILING POINT: 214 Deg F SPECIFIC GRAVITY (H20=1): 1.1

VAPOR DENSITY: N/A

EVAPORATION RATE: SLOWER THAN ETHER

MATERIAL V.O.C.: N/A

SOLUBILITY IN WATER: 100%

APPEARANCE AND ODOR: STRAW COLORED, VISCOUS LIQUID - NO ODOR

FLASH POINT: N/A

METHOD USED: N/A

FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: N/A UPPER:

EXTINGUISHING MEDIA: FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG

SPECIAL FIREFIGHTING PROCEDURES

AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS (MSHA/NIOSH APPROVED) AND FULL PROTECTIVE GEAR.

IZE: YHAL UNUSUAL FIRE AND EXPLOSION HAZARDS

NONE KNOWN.

VARN-00-0008.01

ATTACKMENTLYPage 4 Porf 47

STABILITY: STABLE CONDITIONS TO AVOID

AVOID CONDITIONS OF EXCESS HEAT TO INCREASE SHELF LIFE.

INCOMPATIBILITY (MATERIALS TO AVOID)

AVOID STRONG OXIDIZING MATERIALS.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

MONE.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE NO BAZARD IN NORMAL INDUSTRIAL USE.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

PROLONGED OR REPEATED CONTACT WITH SKIB HAY CAUSE IRRITATION. CONTACT HAY CAUSE EYE IRRITATION.

IN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

THIS PRODUCT IS NOT CONSIDERED TO BE TOXIC THROUGH SKIN ABSORPTION.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
THIS PRODUCT HAY CAUSE HAUSEA, MODERATE GASTRO-INTESTINAL IRRITATION, AND DIARRHEA. FOLLOW FIRST AID PROCEDURES.

HEALTH HAZARDS (ACUTE AND CHRONIC)

THIS PRODUCT MAY PRODUCE MILD TO MODERATE IRRITATION UPON CONTACT WITH EYES AND MILD IRRITATION TO SKIM. NO CHRONIC EFFECTS ARE KNOWN OR EXPECTED,

CARCINOGENICITY: NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? NO THIS PRODUCT CONTAINS NO ENOMY CARCINOGENS.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

EMERGENCY AND FIRST AID PROCEDURES

EYES: FLUSH WITH WATER FOR 15 NIBUTES. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS. SEIN: WASE WITE SOAP AND WATER.
INHALATION: MOVE TO FRESH AIR. INGESTION: IF VICTIM IS CONSCIOUS, INDUCE VOMITING AS DIRECTED BY MEDICAL PERSONNEL.
OBTAIN MEDICAL ATTENTION IMMEDIATELY.

======== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE ==========

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

SOAK UP ON ABSORBENT MATERIAL. DISPOSE INTO NON-HAZARDOUS REFUSE. WASE RESIDUE WITH SOAP AND WATER.

WASTE DISPOSAL METHOD

THIS PRODUCT, AS RECEIVED, MAY MEET THE SEWER DISPOSAL GUIDELINES IN MANY MUNICIPALITIES. CHECK WITH LOCAL SEWER AUTHORITIES BEFORE DISPOSING OF PRODUCT.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

STORE IN A COOL, DRY AREA FROM SUBLIGHT AND EXCESS HEAT. REEP FROM FREEZING.

OTHER PRECAUTIONS

WHEN TRANSPERRING OR USING THIS PRODUCT, WEAR PROPER PERSONAL PROTECTIVE EQUIPMENT.

CONTAINS NO CHEMICALS FOUND ON THE CALIFORNIA PROPOSITION 65 LIST.

PROPER SHIPPING MAME: NOT REGULATED, HAZARD CLASS: N/A, UN NUMBER: N/A, PACKING GROUP: N/A

RESPIRATORY PROTECTION

NO SPECIAL PROTECTION IS REQUIRED.

VENTILATION

NO SPECIAL VENTILATION REQUIRED.

PROTECTIVE GLOVES

NOT REQUIRED UNDER NORMAL COMDITIONS OF USE.

EYE PROTECTION

SAFETY GLASSES WITH SIDE SHIELDS.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

NOT NECESSARY.

WORK/HYGIENIC PRACTICES

WASH WITH SOAP AND WATER AFTER HANDLING PRODUCT.

ERRORDEREZEREZEREZERE SECTION IX - DISCLAIMER ERREZEREZEREZEREZEREZERE

DISCLAIMER

THE IMPORMATION ON THIS MEDS IS BELIEVED TO BE ACCURATE AS OF THE DATE SHOWN IN SECTION 1. SINCE THE USE OF THIS PRODUCT IS NOT IN THE CONTROL OF VARM, IT IS THE USER'S RESPONSIBILITY TO DETERMINE WHAT CONSTITUTES SAFE USAGE FOR A PARTICULAR PURPOSE. THIS FORM MAY BE REPRODUCED LOCALLY IN ANY QUANTITIES NECESSARY TO MEET YOUR REQUIREMENTS.

ATTACAMENTLY Page 48 of \$4

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Print Date: 07/04/1992

Page 1

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: KODAK ULTRATEC Fixer and Replenisher

Catalog Number(s): 101 7748 - To Make 20 gallon(s) (U.S.)

Manufacturer/Supplier: EASTMAN KODAK COMPANY, Rochester, New York 14650

For Emergency Health, Safety & Environmental Information, call: 716-722-5151

For Other Information, call the Marketing and Distribution Center in Your Area:

Synonym(s): KAN 427810; PCD 4896; D-0029.500

2. COMPOSITION/INFORMATION ON INGREDIENTS

Weight % - Component - (CAS Registry No.)

40-45 Water (007732-18-5)

40-45 Ammonium thiosulfate (007783-18-8)

5-10 Sodium acetate (000127-09-3)

1-5 Boric acid (010043-35-3)

1-5 Ammonium sulfite (010196-04-0)

1-5 Acetic acid (000064-19-7)

< 1 Sodium bisulfite (007631-90-5)

3. HAZARDS IDENTIFICATION

LOW HAZARD FOR RECOMMENDED HANDLING

4. FIRST-AID MEASURES

Inhalation: If symptomatic, move to fresh air. Get medical attention if symptoms persist.

Eyes: Any material that contacts the eye should be washed out immediately with water. Get medical attention if symptoms occur.

Skin: Wash with soap and water. Get medical attention if symptoms occur.

Ingestion: Drink 1-2 glasses of water. Seek medical attention.

5. FIRE FIGHTING MEASURES



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Page 2

Extinguishing Media: Use appropriate agent for adjacent fire.

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.

Hazardous Combustion Products: None (noncombustible), (see also Hazardous Decomposition Products)

Unusual Fire and Explosion Hazards: None

6. ACCIDENTAL RELEASE MEASURES

Flush to sewer with large amounts of water.

7. HANDLING AND STORAGE

Personal Precautionary Measures: Use with adequate ventilation. Wash thoroughly after handling.

Prevention of Fire and Explosion: No special precautionary measures should be needed under anticipated conditions of use.

Storage: Keep container closed. Keep away from acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:

ACGIH Threshold Limit Value (TLV):

Acetic acid: 10 ppm TWA, 15 ppm STEL Sodium bisulfite: 5 mg/m3 TWA

OSHA (USA) Permissible Exposure Limit (PEL):

Acetic acid: 10 ppm TWA
Sodium bisulfite: 5 mg/m3 TWA

Ventilation: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions.

Personal Protection: Good industrial hygiene practice should be followed which includes preventing eye contact and minimizing skin contact and inhalation.

Respiratory Protection: None should be needed.

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Page 3

Eye Protection: It is a good industrial hygiene practice to minimize eye contact. Wear safety glasses with side shields (or goggles).

Skin Protection: It is a good industrial hygiene practice to minimize skin contact. For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.

Recommended Decontamination Facilities: Eye bath, washing facilities, safety shower

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical Form: Liquid
- Color: Light yellow
- Odor: Slight sulfur, vinegar
- Specific Gravity (water = 1): 1.318
- Vapor Pressure at 20 C (68 F): 24 mbar (18 mm Hg)
- Vapor Density (Air = 1): 0.6
- Volatile Fraction by Weight: 64 %
- Boiling Point: 100 C (212 F)
- Solubility in Water: Complete
- pH: 5.0
- Flash Point: None, noncombustible liquid

10. STABILITY AND REACTIVITY

Stability: Stable

Incompatibility: Contact with acid liberates flammable material, harmful gas.

Hazardous Decomposition Products: Ammonia, sulfur dioxide, nitrogen oxides (NOx)

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Effects of Exposure:

Inhalation: Expected to be a low hazard for recommended handling.

Eyes: No specific hazard known. May cause transient irritation.

Skin: Low hazard for recommended handling.

Ingestion: Expected to be a low ingestion hazard.

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Page 4

12. ECOLOGICAL INFORMATION

Introduction: This environmental effects summary is written to assist in addressing emergencies created by an accidental spill which might occur during the shipment of this material, and, in general, it is not meant to address discharges to sanitary sewers or publically owned treatment works.

Summary: Data for the major components of this material have been used to estimate the environmental impact of this material. This material is a moderately acidic aqueous solution, and this property may cause adverse environmental effects.

It is expected to have the following properties: A moderate biochemical oxygen demand and may cause oxygen depletion in aqueous systems, a moderate potential to affect some aquatic organisms, a low potential to affect secondary waste treatment microbial metabolism, a moderate potential to affect the germination and/or early growth of some plants, a high potential to biodegrade (low persistence) with unacclimated microorganisms from activated sludge. After dilution with a large amount of water, followed by secondary waste treatment, this material is not expected to cause adverse environmental effects.

13. DISPOSAL CONSIDERATIONS

Discharge, treatment, or disposal may be subject to national, state, or local laws. Flush to sewer with large amounts of water.

14. TRANSPORT INFORMATION

- For transportation information regarding this product, please phone the Eastman Kodak Distribution Center nearest you: Rochester, NY (716) 588-3536 or 588-3573 or 588-3035 Oak Brook, IL (312) 954-6000 Chamblee, GA (404) 455-0123 Dallas, TX (214) 241-1611 Whittier, CA (213) 945-1255 Honolulu, HI (808) 833-1661

15. REGULATORY INFORMATION

- Material(s) known to the State of California to cause cancer: None
- Material(s) known to the State of California to cause adverse reproductive effects: None
- Carcinogenicity Classification (components present at 0.1% or more):
 - International Agency for Research on Cancer (IARC): None
 - American Conference of Governmental Industrial Hygienists (ACGIH): None
 - National Toxicology Program (NTP): None
 - Occupational Safety and Health Administration (OSHA): None

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Page 5

- Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372: None

16. OTHER INFORMATION

US/Canadian Label Statements:

LOW HAZARD FOR RECOMMENDED HANDLING

Keep out of reach of children

For additional information, see Material Safety Data Sheet (MSDS) for this material.

Additional hazard precautions for containers greater than 1 gallon of liquid or 5 pounds of solid:

IN CASE OF SPILL: Absorb spill with inert material, then place in a chemical waste container. Flush residual spill or area with water. Prevent runoff from entering drains, sewers, and streams.

The information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and the protection of the environment.



MATERIAL SAFETY DATA SHEET EASTMAN KODAK COMPANY

Go to show

Date of Revision: 07/17/91 Kodak Accession Number: 448046

PRODUCT INFORMATION

Product Name: KODAK ULTRATEC Developer and Replenisher

Formula: Aqueous Mixture

Product Use: Ingredient for photographic processing

Kodak Catalog No(s): CAT 814 9569 - 5 Gallons; CAT 826 7205 - 52 Gallons;

CAT 121 0475 - 5 Gallons (Canada); CAT 823 3256 - 10 Litres (Japan)

Solution Number: 5395

Kodak Hazard Rating Codes: R: 1 S: 2 F: 0 C: 0

Manufacturer/Supplier: Eastman Kodak Company 343 State Street

Rochester, New York 14650

USA

For Emergency Information: (716) 722-5151

For other purposes, call the Marketing and Distribution Center in your area.

COMPONENT INFORMATION

	Weight Percent	CAS Number	Accession Number
Water	75-80	7732-18-5	035290
Tripotassium phosphate	5-10	7778-53-2	018991
Sodium sulfite	5-10	7757-83-7	901148
*Hydroquinone **	3	123-31-9	900356
*Sodium hydroxide	1-5	1310-73-2	900807

*Principal Hazardous Component(s)

**Chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments & Reauthorization Act of 1986 and 40 CFR Part 372.

PHYSICAL DATA

Appearance and Odor: Clear, slightly yellow solution; slight odor

Boiling Point: GT 100 C (GT 212 F)

Vapor Pressure: ca. 18 mmHg @ 20 C

Evaporation Rate (n-butyl acetate = 1): ca. 0.4

Vapor Density (Air = 1): 0.6

Volatile Fraction by Weight: ca. 90 %

Specific Gravity: 1.162

pH: 11.37

Solubility in Water (by Weight): Complete

GT = Greater than; LT = Less than

C-0145.700D 88-0038 This formulation is a strongly alkaline aqueous solution, and this property may cause adverse environmental effects. It has a low biological oxygen demand and is expected to cause little oxygen depletion in aquatic systems. It is expected to have a high potential to affect aquatic organisms and a moderate potential to affect secondary waste treatment microorganisms and the germination and growth of some plants. The organic components of this chemical formulation are readily biodegradable and are not likely to bioconcentrate. The direct instantaneous discharge to a receiving body of water of an amount of this chemical formulation which will rapidly produce, by dilution, a final concentration of 0.17 mg/L or less is not expected to cause an adverse environmental effect. After dilution with a large amount of water, followed by secondary waste treatment, the chemicals in this formulation are not expected to have any adverse environmental impact.

TRANSPORTATION

For Transportation information regarding this product, please phone the Eastman Kodak Distribution Center nearest you: Rochester, NY (716) 588-3536 or 588-3573 or 588-3505; Oak Brook, IL (312) 954-6000; Chamblee, GA (404) 455-0123; Dallas, TX (214) 241-1611; Whittier, CA (213) 945-1255; Honolulu, HI (808) 833-1661.

REFERENCES

- Unpublished data, Health and Environment Laboratories, Eastman Kodak Company, Rochester, New York.
- Verschueren, K., Handbook of Environmental Data on Organic Chemicals, Second Edition, Van Nostrand Reinhold Company, New York, N.Y., 1983.
- 3. Battelle's Columbus Laboratories, Water Quality Critical Data Book Vol. 3 Effects of Chemicals on Aquatic Life Selected Data from the Literature Through 1968, for the U.S. Environmental Protection Agency, Project No. 18050 GWV, Contract No. 68-01-0007, May 1971.
- 4. National Association of Photographic Manufacturers, Inc. and Hydroscience, Inc., Environmental Effects of Photoprocessing Chemicals, National Association of Photographic Manufacturers, Harrison, New York, 1974, 2 Vols.
- 5. Kodak Publication J-41, "BOD5 and COD of Photographic Chemicals", Eastman Kodak Co., 1981.
- 6. McKee, J.E. and Wolf, H.W., Eds., "Water Quality Criteria," State of California, Publication No. 3-A, 1963.
- 7. Bringmann, G. and Kuehn, R., "Results of the Damaging Effect of Water Pollutants on Daphnia magna," Z. Wasser Abwasser Forsch., 10(5), 161-6 (1977) (in German).
- Bringmann, G. and Kuehn, R., "Results of Toxic Action of Water Pollutants on Daphnia magna (Straus) Tested by an Improved Standardized Procedure,"
 Wasser Abwasser Forsch., 15(1), 1-6 (1982) (in German).
- 9. Juhnke, I. and Luedemann, D., "Results of the Study of 200 Chemical Compounds on Acute Fish Toxicity Using the Golden Orfe Test," Z. Wasser Abwasser Forsch., 11(5), 161-4 (1978) (in German).

C-0145.700D 88-0038

- 10. Wellens, H., "Comparison of the Sensitivity of Brachydanio rerio and Leuciscus idus in the Study of the Toxicity of Fish of Chemical Compounds and Waste Waters," Z. Wasser Abwasser Forsch., 15(2) 49-52 (1982) (in German).
- 11. DeGraeve, G.M., et al., Arch. Environ. Contam. Toxicol., 9, 557-68 (1980).
- 12. Pomona College, Medicinal Chemistry Project, "Chemical Parameter Data Base," Leo, A.J. and Hansch, C., Eds., Seaver Chemistry Laboratory, Claremont, California, June 20, 1987.

PREPARATION INFORMATION

Health and Environment Laboratories Eastman Kodak Company Rochester, New York 14652-3615

The information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of the suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers.

C-0145.700D 88-0038

MEI-MO

A Millennium Environmental Company 3100 Industrial Fuels Drive Scott City, MO 63780 573-651-3444

Fax: 573-651-3821

December 10, 1999

Cody Cochran Rosse Lithographing 2100 Wyandotte Kansas City, MO 64108

RE:AUTHORIZATION LETTER

As required by the Federal Regulations set forth in 40 CFR 264.12 (b), We are hereby notifying you, the generator, that our Scott City facility has the appropriate hazardous waste management permits and is authorized to accept the following waste stream(s) generated by your company.

APPROVAL CODES:

WASTE STREAM NAMES:

EPA WASTE CODE:

C3066-07

Waste Petroleum Distillates

D001

Authorized Signature:

Laura D. Bray

Technical Services Supervisor

1-1-15

FROM: FAX NO.	. :	De	c. 08 1999 08:44AM P2
A division of Millennium Environmental, Inc.		LC3066 - 6	שמים ישוניים וויים אניוים
		Process Code:	Final Handling Code: Rep. #
WASTE PROFILE		Recertification Dates.	1 9
00 Industrial Fuels Drive • Scott City, MO 63780 • (573) 651-3444 Fax (573) 65	1 2004		
A. General Information	B. Bill To		
Generator Name:	Company Na	ime:	
Facility Address:	Address:	Same	
Malling Address:		<i>i1</i>	
	City, State, Z	ip:	
To ma (11)	Contact:		
Generator USEPA I.D.	2	11	
MOD98580546	Phone #:	11	Fax #:
Technical Contact: MO I.D.	Name of Was	DB; 1	1 (
	6	Blanker Wa	ish
816-842-4669 816-842-7525	Process Gene	rating Waste:	
C. Chemical Composition (Totals must add up to 100%)	D. Physical C	Caning Ca	vidment
WATER CONTENT 20-25	Color:	Odor: None X	Mild Physical State at 70° F:
Muphatic Hyklocalbons 30-40	Dark	Describe: Hydrox	Solid Studge
107000000000000000000000000000000000000	pH: □≤2.0	Heat Content:	Meight:
	≥ 2.1-12.4 □ ≥ 12.5	;	TU/gaiLbs/Gai
	Layers:	> 15,000 BT	
TOTAL	A Multilayered □ Bi-Layered	X Yes	Viscosity:
ner Components - Total (PPM)	☐ Single Phased		Medium _% □ High
Oyanides: ND PCB's: ND Sutfides: ND	□ <100°	□ 140°-200°	Halogens:
. Shipping Information	5 (100°-140°	□ >200°	20.5 % Weight
DOT Hazardous Material? A Yes No	G. Metals	■ Total (PPM)	TCLP (PPM)
Proper Shipping Name: Wasta Paraleum Distillates,	Arsenic Barlum	<	Lead Selenium
Nos	Beryllium		Stiver
OOT Hazard class 3 ID No. UNINA <u>UN 1268</u> PG 1/	Cadmium	1	Copper
	Mercury	,	Nickel
s this a hazardous waste as defined by 40 CFR 261?		Characteristics	
this waste subject to a Land Disposal Restriction per 40 CFR 268?	Reactivity:	None	
☐ Yes ☐ No If Yes, attach Land Ban Form,	Other Hazardouse	☐ Explosive ☐ Water	Reactive
Special Handling Information / Additional Comments Describe		☐ None ☐ Radioa	ctive Etiological
	,	☐ Pecticide Mfg Waste	□ Other
	USEPA hazardous coo	tes 1001	***************************************
			·

ESSEX WASTE MANAGEMENT SERVICES, INC.

P.O. BOX 87-9450 (816) 732-5561 KANSAS CITY, MO 64187-9450

INVOICE

NOTE: NEW REMITTANCE ADDRESS

INVOICE NUMBER:

605025

INVOICE DATE:

12/06/96

PAGE:

1

SOLD

ROSSE LITHOGRAPHING CO.

SHIP

ROSSE LITHOGRAPHING CO.

TO:

ATTN: ACCTS PAYABLE 2100 WYANDOTTE

KANSAS CITY, MO

TO:

2100 WYANDOTTE

KANSAS CITY, MO

64108

RECEIVED AT ESSEX 12/03/96

64108

CUST. I.D.:

R0S001

SHIP VIA: SHIP DATE:

12/03/96

P.O. NUMBER:

HANK R.

P.O. DATE:

12/03/96

DUE DATE:

01/05/97

OUR ORDER NO.:

605025

TERMS:

NET 30

SALESPERSON:

RW

ITEM I.D./DESC.	ORDERED	SHIPPED	UNIT	PRICE	NET	тх
MANIFEST #12396 (22	2352) 95-0344	10				
(55 GAL)	9.00	9.00	MQ C	200.0000	1800.00	
TRANSPORTATION FEE	1.00	1.00	D LOAD	D 125.0000	125.00	1

RECEIVED DEC 1 0 1996

All invoices are due according to terms. Buyer agrees to pay to Essex Waste Management Services, Inc. 1. 1.5% interest per month or the maximum rate permitted by law on all past due invoices, and 2. any and all collection costs and fees, including but not limited to attorney fees incurred to obtain payment.

ATTACHMENT (6 Page 1 of 17

1925.00 SUBTOTAL: 0.00 TAX: 0.00 PAYMENTS: 1925.00 TOTAL:

		22 ^{35°}				
	NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. M. D. D. 9. 8. 5. 8. 6. 5. 4. 6. 4 Document No.	2. Page 1 of @1	PRE-	[02160][0:	1]
4	3. Generator's Name and Mailing Address Rosse Lithographing 2100 Wyandotte St. Kansas City, MO 641 4. Generator's Phone (816) 842-466	08	,			
	5. Transporter 1 Company Name ESSEX Waste Man 7. Transporter 2 Company Name	ogen- A MOD9.8.0.062.849	A. Transporter (C) 6 B. Transporter	-73]	413-6 L. 556	48 Inc
	9. Designated Facility Name and Site Address Essex Waste Managem 1483 SW 58 Highway Kingsville, MO 64061	ent Inc.	C. Facility's Pho		732-5561	
	11. Waste Shipping Name and Description		12. C	ontainers	13. Total	14. Unit
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	d. D. Additional Descriptions for Materials Listed Ab.	TE			stes Listed Above	
	_		<i>≤01/T</i>	_		
		or if undeliverable contact ge GNED MANIFEST COPY TO ESSEX @8				
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TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Printed/Typed Name Lag/250- 18. Transporter 2 Acknowledgement of Receipt of	Sigrator Eeg	_		Month Day	Year 19.k
ORTER	Printed/Typed Name 19. Discrepancy Indication Space	Signature			Month Day	Year ·
FAC			16-26			
Y	20. Facility Owner or Operator: Certification of rec	Signature Signature Canal			Month Day	Year S. 6
		ORIGINAL - RETURN TO GENERATOR ATTACHMENT LLO age 2 01 17				

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US E M. D. D. 9. 8.	EPA ID No. 5, 6, 0, 5, 4, 6, 4	Manifest Document No.	2. Pa	ge 1	PRE-	[02160]	[01]
3. Generator's Name and Mailing Address Rosse Lithographing 2100 Wyandotte St) Kansas City, MO 5641 4. Generator's Phone (816) 842-466								Sali Pa
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9. Designated Facility Name and Site Address Essex Waste Manageme 1483 SW 58 Highway Kingsville, MD 64061		US EPA ID NU		C. Fac	cility's Phone		732-556	
11. Waste Shipping Name and Description		•		L	12. Cont		13. Total	14. Unit
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b. E					00-1	ייוט	<u> 730</u>	
C.					• •	•		
d.								
D. Additional Descriptions for Materials Listed Above	ve			E. Han		s for Wo	istes Listed Ab	oove
15. Special Handling Instructions and Additional International Int	R IF UNDEL							
16. GENERATOR'S CERTIFICATION: I certify the mo	aterials described above	on this manifest are not su	bject to federal reg	ulations fo	or reporting (proper dis	posal of Hazar	dous Waste.
Printed/Typed Name CHIPPLIED BISO(NO		Signature	Buson	· · · · · ·			Month D	Day Year S 96
17. Transporter 1 Acknowledgement of Receipt of M Printed/Typed Name 18. Transporter 2 Acknowledgement of Receipt of M Printed/Typed Name		Signature	A Ee	بد			Month [1 2 C	93 9.k
Printed/Typed Name		Signature		·		100	Month C	Day Year
19. Discrepancy Indication Space								
20. Facility Owner or Operator: Certification of recei	ipt of waste materials	covered by this manifes	st except as noted	in Item	19.			
Printed/Typed Name		Signature					Month D	ay Year

000

ESSEX WASTE MANAGEMENT SERVICES , INC.

P.O. BOX 87-9450 (816) 732-5561 KANSAS CITY, MO 64187-9450

INVOICE

INVOICE NUMBER:

701205

INVOICE DATE:

04/25/97

PAGE:

1 of 1

SOLD TO: ROSSE LITHOGRAPHING CO.

ATTN: ACCTS PAYABLE

2100 WYANDOTTE

KANSAS CITY, MO 64108

SHIP

Rosse Lithographing

TO: 210

2100 Wyandotte St.

Kansas City, MO

64108

SHIP VIA:

RECD @ ESSEX 04/19/97

SHIP DATE:

04/18/97

DUE DATE: TERMS: 05/25/97 NET 30 CUST. I.D.:

R0S001

P.O. NUMBER:

STEVE STARH

P.O. DATE:

04/18/97

OUR ORDER NO.:

701205 (24167)

SALESPERSON:

RON WILLIAMS

ITEM I.D	/DESC.	ORDERED	SHIPPED	UNIT	PRICE	NET	TX
NOT DOT (INK)	REGULATED	/SHOWS NO RCF	RA CHARACTERIS	STICS,			
97184	(24167	01 1) 95-0344	10 4.00 (MC	160.0000	640.00	E
TRANSPOR	RTATION FE	E					
97184	(24167)	1.00 L	.UMP	150.0000	150.00	E

25173 10116/99 1014019706

Jan .

MEDEIVED APR 3 0 1997

involces are due according to terms. Buyer igrees to pay to Essex Waste Management Services, Inc. 1.5% interest per month or the maximum rate ermitted by law on all past due involces, and 2. any and all collection costs and fees, including ut not limited to attorney fees incurred to obtain eyment.

TAX: PAYMENTS: TOTAL:

SUBTOTAL:

790.00 0.00 0.00

790.00

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ATTACHMENT 16 Page 4 of 17

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		٠	24	161				
Sec.	NON-HAZARDOUS WASTE MANIFEST	1. Generator's U M D D 9 8		Manifest Posyment No.	2. Page 1 of ©1	PRE-	-[02600][01	11
	3. Generator's Name and Mailing Address Rosse Lithographing 2100 Wyandotte St. Kansas City, MO 641 4. Generator's Phone 816 842-466	.08	\$ <u>.</u>		,			1
	5. Tensporter Compony Nomegement	Inc.	NOD anselond	wan beg 8 4 9	A. Transpor	ter's Phone	732-5561	
	7. Transporter 2 Company Name		8. US EPA ID N		B. Transport	er's Phone		
	9. Designated English Nome and Site Address 1483 SW 58 Highway Kingsville, MO 64061	Inc.	10. US EPA ID N	umber	C. Facility's	Phone 732-55	61	
	11. Waste Shipping Name and Description		<u> </u>	· · · · · ·	12.	Containers	. 13.	14.
	. NOT DOT REGULATED/SHOW	IS NO RCRA C	HARACTERISTICS		N	o. Type	Total Quantity	Unit Wt/Vo
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T O R								
	d.							
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	D. Additional Descriptions for Materials Listed A	bove .	•		SDI/	Codes for w	astes Listed Above	
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	IN CASE OF EMERGENCY AFTER PICKUP FAX A SI						5200	
	TRI#69 (913-646-100)	SINCE TIMITI			H, OIC	, , JE	3200.	
	16. GENERATOR'S CERTIFICATION: I certify the	materials described abo	ove on this manifest are not a	subject to federal reg	ulations for repo	orting proper o	disposal of Hazardous	Waste. Year
Y	X KOUNG JONNSO 17. Transporter 1 Acknowledgement of Receipt o	5/V	1 fee	my y	Jus	<i></i>	14/8	197
TRANSPORTER	Printed/Typed Name Ab Aph E, Wayes A. A.	bely of Est	Signature Signature	Eldayas !	for &	Belfs	Month Day	Year
P	18. Transporter 2 Acknowledgement of Receipt o Printed/Typed Name	f Materials	Signature		·		Month Day	Year
Ř	19. Discrepancy Indication Space							<u> </u>
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Ĵ	20. Facility Owner or Operator: Certification of re	eceipt of waste mater	ials covered by this manif	est except as noted	d in Item 19.			
T Y	<u> </u>						A444 O-	V
Ì	Printed/Typed Name	TACA.	Signature	Ca			Month Day	1Q.7

ORIGINAL-RETURN TO GENERATOR!

NON-HAZARDOUS WASTE MANIFEST		r's US EPA ID No. 8 5 8 0 5 4 6	Manifest Document No	2. Pag		PRE-	[02600]	[01]
4. Generator's Phone 816 842-466	108 59		7117	7		•		
5. Transporter Company Name Casex Waste Management	Inc.	NOD 9USEP	D Number 8 4	A. Trai	nsporter's F	318 1	732-55	561
7. Transporter 2 Company Name		8. US EPA	ID Number		sporter's P			· · · · · · · · · · · · · · · · · · ·
9. Designated Facility Name and Site Address 1483 SW 58 Highway Kingsville, MD 64061	Inc.		D Number		lity's Phone			
11. Waste Shipping Name and Description		<u> </u>	<u>· · · · · · · · · · · · · · · · · · · </u>		12. Cont	 	13.	14.
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		APR 18	1007		•			
D. Additional Descriptions for Materials Listed Al	bove	ALIL TU	1331	E. Hand	ling Codes	for Wa	stes Listed Ab	ove
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15. Special Handling Instructions and Additional	Information			<u> </u>			. 4.1	
IN CASE OF EMERGENCY (DR IF UN	DELIVERABLE	CONTACT G	ENERA	TOR.		•	
AFTER PICKUP FAX A SIG		IFEST COPY 1				32-6	200	
TRI#69 (913-646-120)					7			
16. GENERATOR'S CERTIFICATION: I certify the	materials described	above on this manifest are						
Printed/Typed Name	. /	Sphature	or subject to rederal re	gulations for	reporting p	roper disp	4	lous Waste. ay Year
X BENUNG JOHNSO		1 10	My +	0/11/2	renc		Y4/	8190
17. Transporter 1 Acknowledgement of Receipt of Printed/Typed Name	Materials	Signature		1			Month D	ay Year
18. Transporter 2 Acknowledgement of Receipt of	east of E	ly Jaget	El Hayes	for all	Bola	1851	011	8 5%
Printed/Typed Name	Materials	Signature		<u> </u>		<u> </u>		
19. Discrepancy Indication Space					·		Month D	y Year
17. Discrepancy indication space								
20. Facility Owner or Operator: Certification of rec	eipt of waste ma	terials covered by this ma	nifest except as note	d in Item 19	2.			e.
Printed/Typed Name		Signature					Month Do	y Year
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GENERATOR'S COPY ATTAUNMENT LET 280 6 0117

ESSEX WASTE MANAGEMENT SERVICES , INC.

P.O. BOX 87-9450 (816) 732-5561 KANSAS CITY, MO 64187-9450

INVOICE

INVOICE NUMBER: 704430

INVOICE DATE: 12/12/97

PAGE: 1 of 1

SOLD TO: ROSSE LITHOGRAPHING CO.

ATTN: ACCTS PAYABLE

2100 WYANDOTTE

KANSAS CITY, MO 64108

SHIP Rosse Lithographing

TO: 2100 Wyandotte St.

Kansas City, MO

64108

SHIP VIA: RECD @ ESSEX 12/03/97

SHIP DATE:

12/03/97

DUE DATE:

01/11/98

TERMS:

NET 30

CUST. L.D.: ROS001

P.O. NUMBER: STEVE STARK

P.O. DATE: 12/03/97

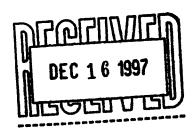
OUR ORDER NO.: 704430 (28213)

SALESPERSON: RON WILLIAMS

	ITEM I.D./DESC.	ORDERED	SHIPPED	UNIT	PRICE	NET	тх
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Jan



NOTE: All invoices are due according to terms. Buyer agrees to pay to Essex Waste Management Services, Inc. 1.1.5% interest per month or the maximum rate permitted by law on all past due invoices, and 2. any and all collection costs and fees, including but not limited to attorney fees incurred to obtain payment.

ATTACHMENT LePage 7 of 17

SUBTOTAL: 1750.00
TAX: 0.00
PAYMENTS: 0.00
TOTAL: 1750.00

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1	NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA M · D · D · 9 · 8 · 5 · 8		Manifest	2. Page 1 of æ1		PRE-I	03447][01	1
	3. Generator's Name and Mailing Address	<u> </u>	, <u>, , , , , , , , , , , , , , , , , , </u>				.,	.00447 3.02	
	Rosse Lithographing 2100 Wyandotte St. 4. Gerlands Ph.S. City, MD 641	08					<u> </u>		
	5. Transporter 1 Company Name Essex Waste Management I	6.	US EPA ID Nu . 9. 8. 9. 1		A. Transp			732-5561	
	7. Transporter 2 Company Name	8. .	US EPA ID Nu	mber	B. Transpo	orter's Ph	one	ed.	
	9. Designated Facility Name and Site Address Essex Waste Management I	10.	US EPA ID Nu		C. Facility	's Phone	1	1879.	
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	11. Waste Shipping Name and Description		•		1		Туре	13. Total Quantity	Unit Wt/Voi
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	D. Additional Descriptions for Materials Listed Ab	ove	•		E. Handlin		_ •	stes Listed Above	
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	15. Special Handling Instructions and Additional I	ntormation .					£ 144		
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	,	NED MANIFES							
		E1#69 (913				:	• • •		
	16. GENERATOR'S CERTIFICATION: 1 certify the	na evodo Dediraseb alainetas	this manifest are not s	bject to federal reg	ulations for n	eporting p	roper dis	posal of Hazardous	Waste.
V	Y GREGORY S. EDWA	RPS	Signature /	3/30	LOUGH	k		10 3	Y • • • • • • • • • • • • • • • • • • •
Ţ	17. Transporter 1 Acknowledgement of Receipt of	Materials							
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ŏ	18. Transporter 2 Acknowledgement of Receipt of	Materials /							
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FA	19. Discrepancy Indication Space								
T-L-T	Discrepancy Indication Space 20. Facility Owner or Operator: Certification of rec	eipt of waste materials co	overed by this manife	st except as noted	l in Item 19				

ATTACHMENT/ Page 8 of/1

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1	NON-HAZARDOUS	1. Generator's U		Manifest Document No.	2. Page 1			
H	WASTE MANIFEST 3. Generator's Name and Mailing Address	M. D. D. 9. B.	·5·8·0·5·4·6·4		of es	PRE-	[03447][01	1
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	4: Gerrendi Anone City, MO 6410 815 842-466	9	6. US EPA ID N		A T-menorie	-/- Db nno		
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	7. Transporter 2 Company Name		8. US EPA ID N	umber	B. Transporte	r's Phone		-
	9. Designated Facility Name and Site Address Essex Waste Management I: 1483 SW 58 Highway Kingsville, MO 64061		10. US EPA ID N	umber 4 9	C. Facility's P	hone 732-556	<u> </u>	
	11. Waste Shipping Name and Description	", " -]	V V 1 Y Y Y	7		Containers	13.	14.
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	D. Additional Descriptions for Metarials Listed Ab-		1		le usalias c	· / · · /	**	
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ATTACHE FOR Page 4 of 17

OF NATURAL RESOURCES

DIVISION OF ENVIRONMENTAL QUALITY

Hazardous Waste Program P.O. Box 176 Jefferson City, Missouri 65102 573-751-3176

HAZARDOUS WAS

THIS DOCUMENT MUST BE USED FOR ALL MISSOURI-DESTINE

NSTRUCTION	S FOR THE COMPLET	ION OF THIS	FORM ARE	ON A SEPARATE SH
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UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	. 1) 197979 1		in the shaded area by State law.
enerator's Name and Mailing Address	14959858054		Acceptance of the Control of the Con	
ROSSE LITHOGRAPHING CO.			AR SHAPASSA	
2100 Wyandofte, Kensas Maios Phone (~810 842-4669	City,, Ma 64108		I (Gercauter est)	
ansporter 1 Company Name	6. US EPA ID Number	500000000000000000000000000000000000000		
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Solvent Receivery Corpora	Mon			idigo
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ENERATOR'S CERTIFICATION: I hereby declare that	he contents of this consignment are fully and accum	rately described above by proper shipp	ing name and are classified,	packed, marked, and label
d are in all respects in proper condition for transport by am a large quantity generator, I certify that I have a	program in place to reduce the volume and toxicity	v of waste generated to the degree 1	have determined to be econ	omically practicable and th
ve selected the practicable method of treatment, store antity generator, thave made a good faith effort to min	de, or disposal currently available to me which mir	nimizes the present and future threat	o human health and the en	dronment; OR, if I am a si
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MENT OF NATURAL RESOURCES

DIVISION OF ENVIRONMENTAL QUALITY

Hazardous Waste Program

P.O. Box 176 Jefferson City, Missouri 65102

573-751-3176

EPA FORM 8700-22 (REV. 1-99) MDNR-HWG 10

Blanker week @ HAZARDOUS WASTE MANIFEST Profiled to

THIS DOCUMENT MUST BE USED FOR ALL MISSOURI-DESTINED SHIPMENTS.
INSTRUCTIONS FOR THE COMPLETION OF THIS FORM ARE ON A SEPARATE SHEET.

MERGENCY ESPONSE	U.S. COAST GUARD 1-800-424-8802	CHEM TREC 1-800-424-9300	DEPT. OF NATURAL RESOURCES 573-634-2436

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CONTAINS 50% RECYCLED PAPER WHICH INCLUDES NOT LESS THAN 20% POST CONSUMER WASTE.



DIVISION OF ENVIRONMENTAL QUALITY
Hazardous Waste Program
P.O. Box 176 Jefferson City, Missouri 65102
573-751-3176

00003 HAZARDOUS WASTE MANIFEST

THIS DOCUMENT MUST BE USED FOR ALL MISSOURI-DESTINED SHIPMENTS. INSTRUCTIONS FOR THE COMPLETION OF THIS FORM ARE ON A SECOND TO THE SECOND THE

STRUCTION	TRUCTIONS FOR THE COMPLETION OF THIS FORM ARE ON A SEPARATE SHE				
MERGENCY	U.S. COAST GUARD	CHEM TREC	DEPT. OF NATURAL RESOURCES		

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	, j., Db	Manifest curpent No.	2. Page .	Inform is requ	ation in the	ed OMB No 2050-0 he shaded areas tate law.
Generator's Name and Mailing Address Russic Lithius and Lines					(Menites Docume		AAE
Querator's Phone ()	K.C., MO			8.631/	Sen, Site Andress)		
Transporter 1 Company Name	6. US E	A ID Number		C.MO.Tra	ns ID		
Transporter 2 Company Name		مارية خاديا جاء يا	ا ما داد		rter's Phone		
Transporter 2 Company Name	8. US E	A ID Number		E MO Tra			
Designated Facility Name and Site Address	10. US È	PA ID Number			der's Phone . actinys ID		
MEI-MO					第144 新沙克	10.79	
3100 Industrial Foels Drive				H. Facility	s Phone		
. US DOT Description (Including Proper Shipping Name		king Group (if any))	12. Contain	ers	13.	14.	
			Number	Туре	Total Quantity	Unit Wt/Vol.	rt. Waste No.
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Combastible Liquid, UN 1993							VAE
		E10.1			د ا ا ا ا مرّم		A WASTE CODE
Combustible Liquid, N.O.S. ()	7	Oil + water		DM	5 5		
Combustible Liquid, UN 1993,	PG III EKG#128	hinkfure from		Aust	1 1 1 1	6	
Non-RURA Regulated Machin	win Usedoil		13	Dm	723	1 1	PAWASE DOOR
	Tapa oce		000	146.6	7.25	/	WE.
Non-Regulated Etching Solution	Ask Henk	11: 11: 5	2	Dm	110		D. (WASTERCONE)
THE COMMENTAL PROPERTY OF THE	Genesis.	THIS DOINING			770	6	iAE
Additional Descriptions for Materials Listed Above		l k	HANDLING CODE	Biaksi - Kabupaten	(C)	1.50	
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C3066-03 CM/M/N		C.	1 7				
Special Handling Instructions and Additional Information	on						CIPACITY OF
24 Hour Emergency Contact	" 516-942 -	11/1/2/					
Trader Livense Plate # /7/	-158 MM	C.WAXG-U	1.499				
GENERATOR'S CERTIFICATION: I hereby declare that and are in all respects in proper condition for transport	the contents of this consignment are	fully and accurately described	d above by pro	per shipping	name and are class	ified, packe	d, marked, and label
If I am a large quantity generator, I certify that I have a have selected the practicable method of treatment, stor quantity generator, I have made a good faith effort to m	program in place to reduce the volu	me and toxicity of waste gen	erated to the d	egree I have	e determined to be	economical	ly practicable and the ent; OR, if I am a sm
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Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Service Services	3.2		Date 1
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processing the contract of the		7 : 3 / 5		N 1 1 6.			Date
Transporter 2 Acknowledgement of Receipt of Materials	S						Month Day Ye
Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature				-	
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Printed/Typed Name		Signature				1	111
Printed/Typed Name		Signature					
Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Discrepancy Indication Space Designated Facility Owner or Operator: Certification of Printed/Typed Name			noted in Item	19.			Date

4 Henry Environmental

HAZARDOUS WASTE MANIFEST

DEPARTMENT OF NATURAL RESOURCES DIVISION OF ENVIRONMENTAL QUALITY

DIVISION OF ENVIRONMENTAL QUALITY
Hazardous Waste Program
P.O. Box 176 Jefferson City, Missouri 65102
573-751-3176

THIS DOCUMENT MUST BE USED FOR ALL MISSOURI-DESTINED SHIPMENTS. INSTRUCTIONS FOR THE COMPLETION OF THIS FORM ARE ON A SEPARATE SHEET.

1	NSTRUCTIONS	S FOR THE COMPLETIO	N OF THIS FORM ARI	ON A SEPARATE SI
	EMERGENCY	U.S. COAST GUARD	CHEM TREC	DEPT. OF NATURAL
	RESPONSE	1-800-424-8802	1-800-424-9300	RESOURCES

ase print or type (Form designed for use on elite (12-pitc				approved OMB No. 2	2050-0039. Expires 9-30
UNIFORM HAZARDOUS	Generator's US EPA ID No.		2. Page		n the shaded areas
WASTE MANIFEST	M ₁ 0 ₁ D ₁ 9 ₁ 8 ₁ 5 ₁ 8 ₁ 0 ₁ 5 ₁ 4 ₁ 0	5 4 20 7	of	is required b	y State law.
Generator's Name and Mailing Address			A. Missouri Ma	nifest Document Num	ber 6
ROSSE LITHOGRAPHING CO.			0, 1,2	9 6,	0001
2100 Wyandotte, Kansas C	ity, MO 64108		B. G.S.I. (Gen.		
4. Generator's Phone (\$16)842-4669			SAME		
5. Transporter 1 Company Name	6. US EPA ID Number		C. MO. Trans.	ID H-1	749(MIR)50
Nortru Transportation Gro	oup MiliDi0i2i1	101817121715	D. Transporter		824-5840
7. Transporter 2 Company Name	8. US EPA ID Number		E. MO. Trans. I		564 5540
	1	<u></u>	F. Transporter's	s Phone	
9. Designated Facility Name and Site Address	10. US EPA ID Number		G. State Facilit		
Sclvent Recovery Corporat	ion			RRO	019
716 Mulberry			H. Facility's Ph		
Kansas City, MC 64101	n. n. n. g. o. M	0,6,1,0,7,6,6		816	474-1391
11. US DOT Description (Including Proper Shipping Name,	Hazard Class, ID Number and Packing Group (if ar	ny)) 12. Container	s	13. 14.	4/4-1391
9		Number	Туре	Total Unit	I. Waste No.
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non aboutared unioning, ,	Ink.				N O N
τ.		DOH	DMOD	22016	STATE
C.		44.11	11.100	0104	D ₁ D ₁ 9 ₁ EPA WASTE CODE
					EPA WASTE CODE
	v (5)			1	STATE
d.					EPA WASTE CODE
					STATE
J. Additional Descriptions for Materials Listed Above		K. HANDLING CODE (F/	ACILITY USE ONLY) FINA	L	COMMENTS
a. D001	SG=0.90 #01533		T 5	0 0 1	
ь. D099	SG=0.80 #01533	3 b. S.O.	T 5	0 1	
c.		c.		1	
d .		d.		1 1	
15. Special Handling Instructions and Additional Information	RETURN WASTE	TO GENERATOR	IF UNDE	ELIVERABLE	
EMERGENCY CONTACT:					
8/6	842-4669	1			
16. GENERATOR'S CERTIFICATION: I hereby declare that the	he contents of this consignment are fully and account	atoly described above by area	or objection name		
and are in all respects in proper condition for transport by	highway according to applicable international and r	national government regulation	s and applicable	state regulations.	
If I am a large quantity generator, I certify that I have a phave selected the practicable method of treatment, stora	program in place to reduce the volume and toxicity	of waste generated to the de	egree I have dete	ermined to be econom	nically practicable and th
quantity generator, I have made a good faith effort to mini	mize my waste generation and select the best waste	e management method availab	le to me that I ca	n afford.	onment; OH, II I am a si
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17. Transporter 1 Acknowledgement of Receipt of Materials			1		Date
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18. Transporter 2 Acknowledgement of Receipt of Materials	,,,,,,		1 morent		Date
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19. Discrepancy Indication Space					
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					- A
20. Designated Facility Owner or Operator: Certification of re	ceipt of hazardous materials covered by this manif	est except as noted in Item 19			Date
Printed/Typed Name	Signature A				Month Day Yea
Ann Hunn	- Ara	Fly	andre or \$1 to \$1 to rest \$4 do not return the page of	-	0,27
FORM 8700-22 (REV. 9-96) MDNR-HWG 10	PREVIOUS EDITIONS ARE OBSOLE	TE U		(A) CONTAIN	IS 50% RECYCLED PAPER WH

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HAZARDOUS WASTE MANIFEST

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL QUALITY
Hazardous Waste Program

DIVISION OF ENVIRONMENTAL QUALITY
Hazardous Waste Program
P.O. Box 176 Jefferson City, Missouri 65102
573-751-3176

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EMERGENCY
RESPONSE

U.S. COAST GUARD 1-800-424-8802 CHEM TREC 1-800-424-9300 DEPT. OF NATURAL RESOURCES

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print or type (Form designed for use on elite (12-pitch) typewriter.)				T			lo. 2050-0039. Expires 9-30-
UNIFORM HAZARDOUS	tor's US EPA ID No.		anifest	2. Pag			on in the shaded areas
WASTE MANIFEST M, O, I	0,9,8,5,8,0,5,4	1614	DU	of _		is require	d by State law.
. Generator's Name and Maifing Address				A, Miss	souri Manifes	t Document I	Number
ROSSE LITHOGRAPHING CO.				0. 1	1209	1 6	1911/1
2100 Wyandotte, Kansas City, MO	6/100				.I. (Gen. Site		
	04100						
Generator's Phone (816) 842-4669 Transporter 1 Company Name	6. US EPA ID Numbe	er .		SAM	Date A section of the section		MID IPA
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Transporter 2 Company Name	8. US EPA ID Numbe	er		E. MO	. Trans. ID		
				F. Tran	nsporter's Ph	one	
Designated Facility Name and Site Address	10. US EPA ID Numb	per		G. Sta	te Facility's II)	
Solvent Recovery Corporation						R	R0019
716 Mulberry				H. Fac	cility's Phone		
Kansas City, MO 64101	MODOO	.0.6.1.0.	7. 6. 6	10-10-00		Q	16 474-1391
1. US DOT Description (Including Proper Shipping Name, Hazard Class, I			12. Contain		13.		14.
	,		Number	Туре	Tota	1 1	Unit I. Waste No.
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ER# 128 , (EPA D001)			ひひつ	7,1	VUO	1	N ₁ O ₁ N ₁
NON REGULATED MATERIAL, ,			_				N, O, N,
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15. Special Handling Instructions and Additional Information	RETURN WAST	TE TO GEN	JERATO	R TE	IINDEL.	TVEDAR	I.F
EMERGENCY CONTACT: \$16-\$4	12-4106		v Didii O		ONDEL	1111111	
6. GENERATOR'S CERTIFICATION: I hereby declare that the contents of	this consignment are fully and acc	carately described	above by pro	oper shipp	oing name and	d are classifie	ed. packed, marked, and labele
and are in all respects in proper condition for transport by highway accor							
If I am a large quantity generator, I certify that I have a program in pla	ce to reduce the volume and toxi	icity of waste gene	erated to the	degree I I	have determine	ned to be ec	onomically practicable and tha
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Printed/Typed Name	Signature	12 11-	1	7			Month Day Year
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COOP CHENTA	' V	- ()		-			Date
7. Transporter 1 Acknowledgement of Receipt of Materials							
7. Transporter 1 Acknowledgement of Receipt of Materials		1.1		-/	A		Month Day Year
the state of the s	Signature	1 Shall	2/	(1)	800	Ω	Month Day
7. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name BORAH GREEN		lobe	ah	A	ree	DC	1/1029
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7. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name 8. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name 9. Discrepancy Indication Space 0. Designated Facility Owner or Operator: Certification of receipt of hazard	Signature Signature	anifest except as n	anoted in Item	19.	ree		Date Month Day Year

DEPARTMENT OF NATURAL RESOURCES DIVISION OF ENVIRONMENTAL QUALITY Hazardous Waste Program P.O. Box 176 Jefferson City, Missouri 65102 573-751-3176

HAZARDOUS WASTE MANIFEST

THIS DOCUMENT MUST BE USED FOR ALL MISSOURI-DESTINED SHIPMENTS. INSTRUCTIONS FOR THE COMPLETION OF THIS FORM ARE ON A SEPARATE SHEET.

		TO THE TOTAL	ON A SEFANAI E SHE
EMERGENCY RESPONSE	U.S. COAST GUARD 1-800-424-8802	CHEM TREC 1-800-424-9300	DEPT. OF NATURAL RESOURCES 573-634-2436

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US ERA ID No.	Manifest	2. Page	1		the shaded areas
Generator's Name and Mailing Address	MODOROSADA	MANA	Of _	uri Manifest Docum		State law.
Rosse Lithographing				09.6	ent Numb	of the
2100 Wyandotte	Kansas City, MO 6410	R		(Gen. Site Address)		HILL.
Generator's Phone ()	(816) 842-4669	R 1 W09				9450
Transporter 1 Company Name	_6. US EPA ID Number	no.	C. MO. T	rans. ID		SAME H-1982
Able Transportation	MODERSE	17444	D. Transp	oorter's Phone	1-5	00-776-1339
Transporter 2 Company Name	8. US EPA ID Number		E. MO. T	rans. ID		
Designated Facility Name and Site Address	10 110 550 15 11			orter's Phone	Projects	
MEI-MO	10. US EPA ID Number		G. State	Facility's ID	3279	
3100 Industrial Fuels Drive			H Facilit	y's Phone		
Scott City, MO 63780	L MOD9806	532054			661 2	• • • • • • • • • • • • • • • • • • • •
US DOT Description (Including Proper Shipping Name, Ha.	zard Class, ID Number and Packing Group (if any))	12. Contain	ers	(573) 13.	14.	
		Number	Туре	Total Quantity	Unit Wt/Vol.	I. Waste No.
Waste Flammable Liquid, N.O.S.	(Petroleum Distillates) Planka	+ .				EPA WASTE CODE
3, Un1993, PG III, RQ-(D001)		· LA		001	12	D 0 0 1
	ERGW 128	exx/	DM	385	0	NONE
Waste Petroleum Distillates, N.O.	S. (Petroleum Distillates)					ID 0 0 11
3, UN1268, PG II, RQ-(D001)	ERG# 128	-0-	DM		1-	STATE ON E
			- 4-2	19090000		EPA WASTE CODE
Non RCRA Regulated Machine O			1			NONE
			DM			STATE ON E
Non-Regulated Etching Solution				8		EPA WASTE CODE
C						
		10	Dec		-	NONE
		<u> </u>	DM			STATE ON E
dditional Descriptions for Materials Listed Above		K. HANDLING CODE	FACILITY USE	FINAL	- Control State of Control	STATE NONE
C3066-02 sp.gr.= 0.87		a. SO	FACILITY USE		Harry was	NON E
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Hazardous Waste Program
P.O. Box 176 Jefferson City, Missouri 65102
573-751-3176

HAZARDOUS WASTE MANIFEST

STRUCTION	S FOR THE COMPLETION	ON OF THIS FORM ARE	ON A SEPARATE SHEE
EMERGENCY	U.S. COAST GUARD	CHEM TREC	DEPT. OF NATURAL

CONTAINS 50% RECYCLED PAPER WHICH INCLUDES NOT LESS THAN 20% POST CONSUMER WASTE.

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DIVISION OF ENVIRONMENTAL QUALITY Hazardous Waste Program P.O. Box 176 Jefferson City, Missouri 65102 573-751-3176

HAZARDOUS WASTE MANIFEST

THIS DOCUMENT MUST BE USED FOR ALL MISSOURI-DESTINED SHIPMENTS. INSTRUCTIONS FOR THE COMPLETION OF THIS FORM ARE ON A SEPARATE SHEET.

EMERGENCY RESPONSE

U.S. COAST GUARD 1-800-424-8802

CHEM TREC 1-800-424-9300 DEPT OF NATURAL RESOURCES 573-634-2436

nt or type (Form designed for use on elite (12-pite					rm Appr	roved OMB No 2050-00
UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. MOD985805404	Manifest Document No.	2. Page of _	is requ	uired by	n the shaded areas y State law.
Rosse Lithographing, Co. 2100 Wyandotte	Kansas City, MO 64108			uri Manifest Docume 2096 (Gen. Site Address)		00,0,0
Generator's Phone () Transporter 1 Company Name	(816) 842-4669 6. US EPA' ID Number		0.110.7			SAME
Elite Environmental	MORODO	38406	C. MO. T	porter's Phone	100K	3(06-584-M 350-6810
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3100 Industrial Fuels Drive Scott City, MO 63780	1 1/0000000		H. Facilit	y's Phone		
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A Millennium Environmental Company 3100 Industrial Fuels Drive Scott City, MO 63780 573-651-3444

Fax: 573-651-3821

October 15, 1999

Ouote Number rosse, 99, est

Cody Cochran
Rosse Lithographing
2100 Wyandotte
3
Kansas City, MO 64108

RE: Estimated Disposal Pricing - Drums/Transportation

Dear Mr. Cochran:

MEI-MO, Inc. is pleased to provide this estimate for the transportation of your hazardous and/or non-hazardous waste.

The following estimated pricing is provided for your consideration:

WASTE STREAM NAME

ESTIMATED COST

LNL - if non-hazardous Conbustible Liquid

\$ 80.00 / 55 gallon drum \$ 55.00 / 55 gallon drum

ADDITIONAL COSTS

Transportation

\$ 150,00 non - dedicated

Demutrage

\$ 75.00 / hour after one free hour.

MEI-MO appreciates the opportunity to provide this quotation. Please contact MEI-MO,Inc. at (573) 651-3444, with any questions.

Sincerely,

MEI-MO, Inc.

Ronnie Williams

Account Representative

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terms and conditions set forth herein.



2601 Truman Road Kansas City, MO 64127 (816) 231-0300

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OHOF TOWELS &	15 X 20	1530	.065	500	0	9000	4850			300	,00
WALKOFF MATS	3x5	1715	2-25	==		16	4	_		1 a	,00
	3x10	1779	4.00	8		7	4			 /	.00
DUST CONTROL	0,00		7-00	<u> </u>		7_	7			10	,00
EEC		8888				<u> </u>				Illait	77/
OTHER							†	 		XXE	100
Charges will be made for prepa	ration of a	additional orde	rs, names and	emblems		<u> </u>	 		TOTAL	<u> </u>	
1. Agreement to Supply. Supplier agree	s to supply	and Customer a	grees to accept e	exclusively t	tom Sun	plier, durina	the term of	of this Agreem	oot and a	ny extens	sions or
renewals hereof, all of Customer's require	ements for t	he type of merch	andise, equipmer	nt and servic	es listed	above at the	prices the	re stated. If Cu	stomer rec	uests ad	iditional

2. Prices. The prices and pricing method for items listed are stated above. Minimums or prices are subject to change if inventory increases or decreases. However, a decrease in the number of Customer's employees will not decrease the weekly service charge unless an employee terminates his employment and Customer returns the full number of garments issued to him. All prices are based on 52 weeks per year service, if any, minimum 50 increase per year. By 30 DAY NOTICE OF INCREASE 3. Suppliers Guarantee. Supplier guarantees that it will (a) Repair and return to the customer, all garments in need of repair (b) Return all merchandise in a useable condition. (c) Return all merchandise picked up for cleaning the following scheduled delivery day; and (d) Deliver all addmen requesting standard size and color received on a regular delivery day. If supplier fails to meet the guarantees listed above, the customer will be entitled to a credit equal to the weekly charge for the non-conforming item. Supplier's

amounts or types of merchandise, equipment or services, such additional merchandise, equipment or services will be covered by this Agreement and will be subject to the

to meet the above guarantees will not entitle the Customer to cancel this Agreement. This agreement takes effect as of the date of signing until a date sixty (60) months from the date of installation.

THE UNDERSIGNED CUSTOMER UNDERSTANDS AND ACCEPTS THE TERMS OF THE SERVICE AGREEMENT PRINTED ABOVE AND ON THE REVERSE

Accepted By





Facsimilie Transmission Cover Sheet

Date <u>9-72-00</u>	Number of Pages
TO: ALMA MORENO LAHM	
Company: EPA REGION VII	
Fax Number: 913-551-8752	
From: HANK REBROUGH	
	the pages, please call us at 42-4669
Remarks/Instructions: <u>Acma</u> ,	THE MAN AT THE LIGHTING
PLACE HAS TOLD ME THAT THE	SE ARE RATED AS INDUSTRIAL
"LAMPS" AND ATTE NOT CON	SIDERED "LIGHTING". HE
•	BUT THOUGHT THEY WERE
CLASED DIFFERENTLY FOR	SOME REASON. PLEASE
ADVISE.	
	Manlos Jan
	Thank You.

Our Goal Is Delighted Customers!





PHILIPS

Philips Lighting

MATERIAL SAFETY DATA SEEET

PRODUCT: Standard Fluorescent - Triphosphor Coating

----SECTION 1 MANUFACTURER

Manufacturer's Name and Address: Philips Lighting Company

A Division of Philips Electronics North America Corporation 200 Franklin Square Drive P. O. Box 6800 Somerset, N. J. 08875

Emergency Telephone No.: (908 563-3197 Other Information Calls: (908) 563-3103

SECTION 2 HAZARDOUS INGRE			
	OSHA PEL	ACGIH TLV	APPROX. WT. 5
Phosphor powder nuisance dust	15mg/m³	10mg/m³	2.5%
*cerium terbium magnesium aluminate	N/A	10mg/m³	. 25%
*barium magnesium aluminate	N/A	10mg/m³	.5%
*yttrium oxide	$1^{1} \cdot 0 \text{mg/m}^{3}$	1.0mg/m^3	.5%
*antimony *manganese	.5mg/m³ 5mg/m³	. 5mg/m³ 5mg/m³	.01% .02%
Mercury (7439-97-6)	$.05mg/m^3$.05mg/m³	.02%

PEL + TLV are given for magesium, aluminum oxide, yttrium, antimony and manganese. Barium aluminate is not a soluble compound. Antimony and Manganese are bound within a calcium phosphate crystal matrix.

SECTION 3 PHYSICAL CHEMICAL CHARACTERISTICS

Not applicable. This item is a light bulb. Up to 8 foot long and 1.25 inches in diameter.

Allower Mice 2013

Philips Lighting Company A Division of Philips Electronics North America Corporation 200 Franklin Square Drive & P.O. Bax 6400 Samerser, New Jarsey 08875-6800



SECTION 4 FIRE AND EXPLOSION DATA

Not Applicable. Under extreme heat glass tube might melt or crack.

SECTION 5 REACTIVITY DATA

Stability: · Lamp is stable

Incompatability: Glass will react with Hydrofluoric Acid

Polymerization: Not applicable

SECTION 6 HEALTH BAZARD DATA

Breakage of this lamp may result in some exposure to the phosphor powder dust and to elemental mercury vapor. The phosphors contain aluminates, phosphates and an oxide. No adverse affects are expected from occassional exposure to broken lamps, but as a matter of good practice, prolonged or frequent exposure should be avoided through the use of adquate ventilation during disposal of large quantities of lamps.

EMERGENCY AND FIRST AID PROCEDURE: Normal first aid procedure for glass cuts if such occur through lamp breakage.

SECTION 7 PRECAUTIONS FOR SAFE HANDLING AND USE

Normal precautions should be taken for collection of broken glass.

WASTE DISPOSAL METHOD: Under the new Toxicity Characteristic Leachate Procedure (TCLP) promulgated by the U.S. Environmental protection Agency (EPA), tests of used or spent fluorescent, incandescent, and ligh intensity discharge lamps indicate that some types of these lamps may be classified as characteristic hazardous waste. Notably, the TCLP test results for fluorescent lamps vary tremendously from laboratory to laboratory and appear to be dependent on lamp operating conditions or burning time. Lamps from all manufacturers exhibit the same phenomena. The National Electrical Manufacturers Association (NEMA) is working closely with the EPA for clarification and guidance. Small numbers of these lamps placed in ordinary trash may not appreciably affect the method of lamp disposal. If spent lamps are added to other regulated wastes or disposed in large quantities, disposal of lamps may be regulated. Customers should review their waste handling practices to assure that they are properly disposing of waste lamps.

SECTION 8 CONTROL MEASURES

Respiratory Protection: Appropriate dust mask should be used if large volumes of lamps are being broken for disposal.

Ventilation: Avoid inhalation of any airborne dust. Provide local exhaust when disposing large quantities of lamps.

Hand and Eye Protection: Appropriate hand and eye protection should be worn when disposing of lamps or handling broken glass.

1017 21 Paga 3 pag 3

S06-93002

Jan. 94

A Millennium Environmental Company 3100 Industrial Fuels Drive Scott City, MO 63780 573-651-3444 Fax: 573-651-3821

January 12, 2000

Cody Cochran Rosse Lithographing Co. 2100 Wyandotte Kansas City, MO 64108

RE: AUTHORIZATION LETTER

We are hereby notifying you, the generator, that our Scott City facility has the appropriate waste management permits and is authorized to accept the following waste stream(s) generated by your company.

APPROVAL CODES:

WASTE STREAM NAMES:

MO STATE CODES:

C3066-08

Non-Regulated Paste Ink

NONE

C3066-06

Non-Regulated Aqueous Coating

NONE

Authorized Signature:

Laura D. Bray

Technical Services Supervisor

24 1 4

MEI - MO

A division of Millennium Environmental, Inc.

WASTE PROFILE

		// I J
Profile #	Date Approved:	Tech Agegoval
C3066-08	1 11121(X)	X
Process Code:	Final Flandling Code:	Rep. #
Recertification Dates:		03
- Contract Contract		
	†	

3100 Industrial Fuels Drive • Scott City, MO 63780 • (573) 851-3444 Fax (573) 851	-3821		
A. General Information	B. Bill To:		
Generator Name:	Company Name:		
		Same	
Facility Address Rosse his Logge applies CO.	Address:	<u>Juan</u>	
Malling Address:	·		<u> </u>
2100 Wrandoria	City. State, Zip:) [
	Contact:		
Generator USEPA I.D.	Phone #:	1/	
MOD98580546	7	Fax #:	•
Technical Contact: MO I.D.	Name of Waster	1 10	
Cody Cochlan 0/2091	Process Generating V		•
816-842-4669 816-892-7525	1	- 7	acking
C. Chemical Composition (Totals must add up to 100%)	D. Physical Charac	teristics of Waste	
WATER CONTENT	Color: Dar K	Odor: None Mild	Physical State at 70° F:
Pasi = Va K 18-100		Describe:	Solid Studge
	pH: □≤2.0	Heat Content:	☐ Liquid ☐
	2.1-12.4	BTU/gal	Lbs/Gal
	□≥ 12.5	>14,000 BTULL	Specific Gravity 6.69
	Layers:	Free Liquids:	Viscosity:
TOTAL 100%	Bi-Layered	□ No	☐ Low Xi Medium
E. Other Components - Total (PPM)	☐ Single Phased	Volume <u> </u>	□High
Cyanides: NO PCB's: NO Sulfides: NO	Flash point ³ F:	☐ 140°-200°	Halogens:
F. Shipping Information	□ 100°-140°	≱ (>200°	40.5 % Weight
DOT Hazardous Material?		otal (PPM)	
Proper Shipping Name: NON BCRA NOT NOT	Arsenic	,	TCLP (PPM)
	Barlum	Lead Seleniu	
Le vajel	Beryllium	Silver	""
DOT Hazard class Not ID No. UNINA NA PG NA	Cadmium	Copper	
RO PO + ERG# NO A	Chromium	Nickel	
	Mercury	Zinc Zinc	
Is this a hazardous waste as defined by 40 CFR 261?	H. Hazardous Chara	cteristics	
□ Yes Živo	Reactivity: Non	e 🗆 Pyrophoric	☐ Shock Sensitive
Is this waste subject to a Land Disposal Restriction per 40 CFR 288?	□ Exp		o- □ Other
☐ Yes 🔑 No If Yes, attach Land Ban Form.	Other Hazardouse Charac	sterietics:	
. Special Handling Information / Additional Comments Describe	□ Non	e ☐ Radioactive	☐ Etiological
		licide Mfg Waste	. □ Other
non regulated paste mk	USEPA hezardous codes	<u>~ #</u>	
J. Certification			

I hereby warrant the sample defined herin is truly representative of all physical and chemical properties of the waste stream as defined in the preceding profile date, and taken in accordance with 40 CFR 261. I have reviewed and am familiar with the information supplied in this and all attached documents and that to the best of my knowledge is true and accurate, and all suspected hazards have been disclosed. Correction Authorization: I authorize MEI - MO and/or its representative (s) to make corrections to this profile which

A Millennium Environmental Company 3100 Industrial Fuels Drive Scott City, MO 63780 573-651-3444

Fax: 573-651-3821

January 12, 2000

Cody Cochran Rosse Lithographing Co. 2100 Wyandotte Kansas City, MO 64108

RE: AUTHORIZATION LETTER

We are hereby notifying you, the generator, that our Scott City facility has the appropriate waste management permits and is authorized to accept the following waste stream(s) generated by your company.

APPROVAL CODES:

WASTE STREAM NAMES:

MO STATE CODES:

C3066-08

Non-Regulated Paste Ink

NONE

C3066-06

Non-Regulated Aqueous Coating

NONE

Authorized Signature:

Laura D. Bray

Technical Services Supervisor

FAX NO. :

Dec.	08 1999 08:45	AM P4
Profile # 23066-00	Date Approved:	Tech Approval
Process Code:	Final Handling Code:	Rep. # 3
Recertification Dates:		1 03

MEI - MO A division of Milleradorn Environmental, line.

WASTE PROFILE	
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WHOTE I HOLLE		Recertification Dates:			7 0
3100 Industrial Fuels Drive • Scott City MO 62790 - (570) 664 044					<u> </u>
3100 Industrial Fuels Drive • Scott City, MO 63780 • (573) 651-3444 Fax (573) 85 A. General Information		<u> </u>			
Generator Name:	B. Bill To				
Casso highogenshing	Company Na	Same			
Facility Address: 2100 Wyondorre	Address:	'/	<u> </u>		
Mailing Address:	City, State, Z	īp:		·	
1/ 000 1 1000	Contact;	•			
Generator USEPALD.	Phone #:	'/			
MOD98580546	4	//	Fax #;		
Cody Cochean 01/20191	Name of Was	te:		1	
Phone #: Fex #:	Process Gene	erating Waste:	<u>-001</u>	ant/40	Loss Coal
816 812 · 9669 816 · 842 - 7525 C. Chemical Composition (Totals must add up to 100%)				.	
	D. Physical C	haracteristics of	Waste		
WATER CONTENT 20-25	Color:	Odor: None		Physical State a	at 70° F: ☐ Sludge
2020	Chean			Andrig	۵
	pH: □≤2.0	Heat Content:	Day	Weight:	Lbs/Gal
	□ ≥ 12.5		BTU/gai BTU/Lb	Specific Gravity	40
	Layers:	Free Liquids:	010/LB	Viscosity:	
TOTAL 100%	☐ Multilayered **Bi-Layered	Yes □ No		□ Low Medium	
C. Other Components - Total (PPM)	☐ Single Phased Flash point °F;	Volume	%	☐ High	
Cyanides: NT PCB's: ND Sulfides: NT	□ <100°	☐ 140°-200°		Halogens:	-
Shipping Information	□ 100°-140°	∑ (>200°		NA	
DOT Hazardous Material?	G. Metals	■ Total (PPM)			TCLP (PPM)
Proper Shipping Name: Now Hazardows Now Refu	Arsenic		Lead		
DOT DOT RegulaTed	Barlum		Seleniui	m	
DOT Hazard class NA ID No. UN/NA NA PG NA	Beryllium		Silver		
10 N4 ERG# N A	Chromium		Copper Nickel		
U\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Mercury		Zinc		
s this a hazardous waste as defined by 40 CFR 261?		Characteristics			
☐ Yes ☐ No	Reactivity:	X None □ F	Pyrophoric	O Sho	ock Sensitive
s this waste subject to a Land Disposal Restriction per 40 CFR 268? Yes Yes You Yes Yes Yes Yes	Other Hazardouse		Vater Reactive	∟ . □ Oth	lef *
Special Handling Information / Additional Comments Describe			Radioactive	□ Etic	ilogical
		☐ Pesticide Mfg Waste		. □ Oth	=
non regulated aqueous	USEPA hazardous co	des			
Coating					
	. ————				
	·———				
					
Certification					

I hereby warrant the sample defined herin is truly representative of all physical and chemical properties of the waste stream as defined in the proceding profile date, and taken in accordance with 40 CFR 261. I have reviewed and am familiar with the information supplied in this and all statched documents and that to the best of my knowledge is true and accurate, and all suspected hazards have been disclosed. Correction Authorization: I authorize MEI - MO and/or its representative (s) to make corrections to this profile which are mostisted with the sample presented for characterization and/or regulatory regulatory regulatory and federal agencies. I understand that I will receive a corrected copy.

ATTACHER TATACHER TO AND LONG.



MISSOURI DEPARTMENT OF NATURAL RESOURCES HAZARDOUS WASTE PROGRAM P.O. BOX 176 JEFFERSON CITY, MISSOURI 65102 (573) 751-3176

GENERATOR'S HAZARDOUS WASTE SUMMARY REPORT - PART I

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

ROSSE LITHOGRAPHING CO. CONTACT:BRIAN GLOE 2100 WYANDOTTE (2ND FLOOR) KANSAS CITY, MO 64108

EPA ID# MOD985805464 MO ID# 021096

NOTE: THE FEDERAL EPA AND MISSOURI GENERATOR I.D. NUMBERS ARE ASSIGNED EXCLUSIVELY TO THE SITE WHERE WASTE IS PRODUCED. YOU MUST NOTIFY THE DEPARTMENT IF THE ADDRESS

	FOR THE SITE OF GENE	RATION CHANGES.		
NOTE PLEASE READ INSTRUCTIONS AND EIT	HER PRINT OR TYPE			
SECTION A - REPORT IDENTIFICATION				
1. TYPE OF REPORT (CHECK ONE)	2. FOR THE PERIOD EN	DING (CHECK ONE & FI	LL IN YEAR)	3. PAGE
QUARTERLY	9-30(YEAR)	☐ 12-31- <u></u>	(YEAR)	OF
MANNUAL 6 - 30 - 97 - 98 (YEAR)	3-31(YEAR	G-30	(YEAR)	Or
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		1.4.		
SECTION B - GENERATOR IDENTIFICATION NOTE: Any change in either the mailing or site address	from previous reports require	es renotification t	o the Departr	nent.
NOTE: Any change in either the mailing or site address	from previous reports require	33 TOTIOLINGALION C		
GENERATOR'S NAME SAME AS LABEL				
		TELEPHONE N	IMRER	
5. GENERATOR CONTACT PERSON (NAME) SAME AS LABEL		TELEPHONE IN	No.DETT	
			STATE	ZIP CODE
5. MAILING ADDRESS	CITY		SIAIE	ZIF CODE
			·	710 0005
7. PLANT SITE ADDRESS SAME AS LABEL	CITY		STATE	ZIP CODE
·				
NAME OF PARENT FIRM			OFFICE USE	ONLY
ECTION C - STATUS OF WASTE GENERATED (CHE	CK ONE)			
10.		11.		ACUSTATED BUT N
	RTABLE QUANTITY NOT GENER		RTABLE QUAN	TITY GENERATED BUT N HIS QUARTER. Sign certificat
	ertification and transmit to the depare to complete Part 2)	and tr	ansmit to the dep	artment. (Do not complete Part
Certification and transmit to the department.				
SECTION D - COMMENTS				· ·
We dispose of waste ink vo Copies of our manifests ar	in Essex Wast	c Manag	ement	TAGE TUC
	9 1 1 4 2	er Excell	see me	an! fect
copies of our manifests ar	e machea.	C, 0330A		
the ink shows no RCRA	-la and hade			
THE TAR EMOUS TIO INCHA	Characteritie	-S,		
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			. ···	
•			. ~	
		·	. "	
SECTION E - CERTIFICATION STATEMENT				
SECTION E - CERTIFICATION STATEMENT Partify under penalty of law that I have personally exam	nined and am familiar with the	information sub	nitted in this	and all attached docume
ertify under penalty of law that I have personally exam	mmediately responsible for	ODIAHING ME IN	ioiination, i	Delicite in a
ertify under penalty of law that I have personally exam	mmediately responsible for	ODIAHING ME IN	ioiination, i	Delicite in a
ertify under penalty of law that I have personally examed that based on my inquiry of those individuals in primation is true, accurate, and complete. I am away	mmediately responsible for	ODIAHING ME IN	ioiination, i	e information, including
ertify under penalty of law that I have personally exam	mmediately responsible for	ODIAHING ME IN	ioiination, i	Delicite in a
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ertify under penalty of law that I have personally exame that based on my inquiry of those individuals in the complete of the complete. I am away possibility of fine and imprisonment.	mmediately responsible for	ODIAHING ME IN	bmitting false	e information, including

		24	147				
A	NON-HAZARDOUS 1. Generator's US	EPA ID No.	Manifest Posyment No.	2. Page 1 of	PRE-[0	2600][01]	L
	WASTE MANIFEST	5805464	9.7.1.8.4	or I			
Å	3. Generator's Name and Mailing Address Rosse Lithographing 2100 Wyandotte St. Kansas City, MD 64108 4. Generator's Phone816 842-4669	· ·					
	5. Tensporer Waste Management Inc.	MODSUSE ON	15 2 8 4 9	A. Transporter		732-5561 	
	7. Transporter 2 Company Name	8. US EPA ID N	umber	B. Transporter	s Phone		
	9. Designated English North and Site Address Inc.	10. US EPA ID N	umber	C. Facility's Ph	one	•	
	1483 SW 58 Highway Kingsville,MO 64061 M O D 9	809628	9	(816)	732-5561		
	11. Waste Shipping Name and Description			12. C	ontainers	13. Total Quantity	14. Unit Wt/Voi
	NOT DOT REGULATED/SHOWS NO RCRA C	HARACTERISTIC	S,			•	ACES IN
	(INK) Approval Number [95-03			MA	40MC	1,6.00	P
GE	b.						. 73
N E R			<u> </u>	<u> ·</u>	-		C. S.
A T O	c.				. .		
.R	d						1
				F Handling	odes for Was	tes Listed Above	
	D. Additional Descriptions for Materials Listed Above 11A. NASTE INK (4X55)			501/7			
100	IIA. MIGIET						
The Contract	15. Special Handling Instructions and Additional Information				.0		3
音楽なる	IN CASE OF EMERGENCY OR IF UND	ELIVERABLE	CONTACT G	ENEKHIU AT 816	732-6	200.	เมสาปแลงให้เฉาะใช้
のできない。これでは、これでは、これでは、これでは、これでは、これでは、これでは、これでは、	AFTER PICKUP FAX A SIGNED MANI	FESI CUPT I	O KKISTEL				88
14.64.02M	TRI#69 (913-646-140)			·			
14/14	16. GENERATOR'S CERTIFICATION: I certify the materials described of	above on this manifest are n	of subject to federal	regulations for rep	orning proper dis	posal of Hazardou	Year
ただるも	Printed/Typed Name KPNNU JONNSON	X Ke	my,	rofins	or _	74/8	197
	17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name	Signature	1 - 11	1/2/6	3/1/50	Month Day	Yeor P
	18. Transporter 2 Acknowledgement of Receipt of Materials	the back	C/ Hayes	4,000			, Year
	Printed/Typed Name	Signature				Month Day	.
	19. Discrepancy, Indication Space						
是	20. Facility Owner or Operator: Certification of receipt of waste ma	aterials covered by this m	anifest except as n	oted in Item 19.			
	Printed/Typed Name	Signature	. (2		Feery	10412	2197
	Chris Stringer For 15504	11/2	0002	L	رسحت		

		•	282										
- 1	11011-11ALAIIDOO	1. Generator's U 1 · () · () · 9 · 8	S EPA ID No. -5 -8 -0 -5 -4 -6 -4	Manifest 9.7.3.3.7	2. Pag of	ı	PRE-	[03447][01]				
	Generator's Name and Mailing Address Rosse Lithographing 2100 Wyandotte St. Generator's Albana City, MO 64108	3		•									
	5. Transporter I Company Nome Essex Waste Management Inc	6. US EPA ID Number gement Inc. M.O.D.9.8.0.9.6.2.8.4.9						A. Transporter's Phone (816), 732-5561					
	7. Transporter 2 Company Name		8. US EPA ID No.		<u> </u>	sporter's Pl		ga š a.					
	9. Designated Facility Name and Site Address Essex Waste Management Inc 1483 SW 58 Highway Kingsville, MO 64061			_		lity's Phone		16857. 51	nan Kumata				
	11. Waste Shipping Name and Description		-			12. Cont		13. Total	14. Unit Wt/Voi				
	a. NOT DOT REGULATED/SHOWS	NO RCRA C	CHARACTERISTICS	5 ,	,			,	W17 VOI				
G	Approval Number	r [95-03	3440]			6.10	Du	\$ 5,000	\mathcal{P}				
EZE				٠.			•						
RATOR	c								2008-36-300				
	d.			•			; 25	*******					
	Additional Descriptions for Materials Listed Above		-		1	dling Code		ostes Listed Above	We concentrately see				
	11A, 10/55 2/2-21 15. Special Handling Instructions and Additional Info	ormation		-	30	01/73	50						
	11. 10/65 2/2-21 15. Special Handling Instructions and Additional Info IN CASE OF EMERGENCY OF AFTER PICKUP FAX A SIGN	R IF UNDE	FEST COPY TO		S C	ATOR-	(810	5) 842-46					
	11. 10/65 2/2-21 15. Special Handling Instructions and Additional Info IN CASE OF EMERGENCY OF AFTER PICKUP FAX A SIGN	IF UNDE	FEST COPY TO	KATIE A	ENER T 81	ATOR- 6-732	(81)	5) 842-46	669 Woste,				
	15. Special Handling Instructions and Additional Info IN CASE OF EMERGENCY OF AFTER PICKUP FAX A SIGN Essey TR 16. GENERATOR'S CERTIFICATION: 1 certify the most Printery Typed Name TREGORY S. EDWAR	ormation R IF UNDE NED MANIF Prior described about PS	FEST COPY TO	KATIE A	ENER T 81	ATOR- 6-732	(81)	5) 842-46 20.	669				
- FRAZOR	15. Special Handling Instructions and Additional Info IN CASE OF EMERGENCY OF AFTER PICKUP FAX A SIGN ESSED TR 16. GENERATOR'S CERTIFICATION: 1 certify the more Printed Typed Name Printed Typed Name TREGEN S. EDWAR 17. Transporter 1 Acknowledgement of Receipt of Manager Printed Typed Name Printed Typed Name Printed Typed Name Printed Typed Name Printed Typed Name Printed Typed Name Printed Typed Name	ormation R IF UNDS WED MANIF WHERE GRAPH CONTROLS Terrials The Control of th	FEST COPY TO	KATIE A	ENER T 81	ATOR- 6-732	(81)	5) 842-46 00. isposal of Hazzardous	Waste.				
- raanoporter	15. Special Handling Instructions and Additional Info IN CASE OF EMERGENCY OF AFTER PICKUP FAX A SIGN ESSEMTE 16. GENERATOR'S CERTIFICATION: 1 certify the most Printed Typed Name YOURGEN S. EDWAR 17. Transporter 1 Acknowledgement of Receipt of Mark	ormation R IF UNDS WED MANIF WHERE GRAPH CONTROLS Terrials The Control of th	FEST COPY TO 9/3-646-790) ove on this manifest are not s	KATIE A	ENER T 81	ATOR- 6-732	(81)	isposal of Hazardous	Waste.				
TER	15. Special Handling Instructions and Additional Info IN CASE OF EMERGENCY OF AFTER PICKUP FAX A SIGN ESSED TR 16. GENERATOR'S CERTIFICATION: 1 certify the most Printed Typed Name Printed Typed Name 7. COCK S. EDWAR 17. Transporter 1 Acknowledgement of Receipt of Market Printed Typed Name Printed	ormation R IF UNDS WED MANIF WHERE GRAPH CONTROLS Terrials The Control of th	FEST COPY TO 13-646-100) ove on this manifest are not s Signature Signature	KATIE A	ENER T 81	ATOR- 6-732	(81)	isposed of Hazardous South Day Month Day Month Day 10-2	Woste.				
TRANSPORTER HAC-1-F	15. Special Handling Instructions and Additional Info IN CASE OF EMERGENCY OF AFTER PICKUP FAX A SIGN ESSEPTE 16. GENERATOR'S CERTIFICATION: 1 certify the mon Printed Typed Name YOUR S. EDWAR 17. Transporter 1 Acknowledgement of Receipt of Ma Printed/Typed Name BEDAE 18. Transporter 2 Acknowledgement of Receipt of Ma Printed/Typed Name	PS Steriols	Signature Signature Signature	KATIE A	ENER T 81	ATOR-6-732	(81)	isposed of Hazardous South Day Month Day Month Day 10-2	Woste.				
TER	15. Special Handling Instructions and Additional Info IN CASE OF EMERGENCY OF AFTER PICKUP FAX A SIGN ESSED TR 16. GENERATOR'S CERTIFICATION: 1 certify the more Printed Typed Name Printed Typed Name TRECON S. EDWAR 17. Transporter 1 Acknowledgement of Receipt of Market Printed Typed Name Printed Typed Name 18. Transporter 2 Acknowledgement of Receipt of Market Printed Typed Name 19. Discrepancy Indication Space	PS Steriols	Signature Signature Signature	KATIE A	ENER T 81	ATOR-6-732	(81)	isposed of Hazardous South Day Month Day Month Day 10-2	Woste.				

		-66	】				
•		22 ³⁵⁸	\$12.50 F				
	NON-HAZARDOUS WASTE MANIFEST 1. Generator's US M. D. D. 9. 8.	S EPA ID No. Manifest Document No. 5. 8. 0. 5. 4. 6. 4 Document No.	2. Page		PRE-	-[02160][01	. 1
1	3. Generator's Name and Mailing Address Rosse Lithographing 2100 Wyandotte St. Kansas City, MO 64108 4. Generator's Phone (816) 842-4669						T. C.
	5. Transporter Company Name 6	6: US EPA ID Number		nsporter's Pl	none	1.5561	
	Essex Waste Management 17. Transporter 2 Company Name 8	M. O. D. 9. K. O. Q. G. 2. 8. 4.9 8. US EPA 10 Number		nsporter's Ph		T. 0201	
	7. Transporter 2 Company Series						}
	Essex Waste Management Inc. 1483 SW 58 Highway	10. US EPA ID Number	C. Faai	ility's Phone		732-5561	The state of the s
	<u></u>		1	12. Conto		13.	14.
	11. Waste Shipping Name and Description			No.	Туре	Total	Unit Wt/Vol
	a. NOT DOT REGULATED/SHOWS NO RCRA C	HARACTERISTICS,				1	
	(INK) Approval Number [95-03	3440]		009	Dm	4500	P
_ Gw z wœ	ь.						
RATOR	c.						
	d.						
وال	Additional Descriptions for Materials Listed Above		1	ndling Codes		astes Listed Above	
	15. Special Handling Instructions and Additional Information IN CASE OF EMERGENCY OR IF UNDE						
	AFTER PICKUP FAX A SIGNED MANIF ATTN: KRISTEL	FEST CUPT TO ESSEA G	210			-	·
	16. GENERATOR'S CERTIFICATION: I certify the materials described above		julations ic	or reporting (proper di		Waste. Year
*	Printed Typed Name CHARLIES BISO(NO	Cloude Bison	200	· · · · · · · · · · · · · · · · · · ·	<u> </u>	Month Day	196
T R	17. Transporter 1 Acknowledgement of Receipt of Materials					Month Day	Year
	Robort Eagleson	Signature Ee	<u>~</u>			17.203	,19.E
Q	18. Transporter 2 Acknowledgement of Receipt of Materials		0_			Month Day	Year
42000FWR	Printed/Typed Name	Signature				Month Day	
	19. Discrepancy Indication Space						
F	<u> </u>		·				
4-6	Figicility Owner or Operator: Certification of receipt of waste materi	ials covered by this manifest except as nate	d in Item	ı 19.			
Y	Printed/Typed Names (APPD //	Signature	.00,	0		Month Day	Year PS.6

AGRIGINAL RETURN TO GENERATOR

A Millennium Environmental Company 3100 Industrial Fuels Drive Scott City, MO 63780 573-651-3444 Fax: 573-651-3821

October 25, 1999

Rosse Lithographing 2100 Wyandotte Kansas City, MO 64108

RE: AUTHORIZATION LETTER

We are hereby notifying you, the generator, that our Scott City facility has the appropriate waste management permits and is authorized to accept the following waste stream(s) generated by your company.

APPROVAL CODES:	WASTE STREAM NAMES:	MO STATE CODES:
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C3066-02	Combustible Liquid (Dampening Solution)	None
C3066-03	Non-RCRA Reg. Machine Oil	None
C3066-04	Non-Regulated Etching Solution	None
C3066-05	Non-Regulated Color Wash	None

Authorized Signature:

Laura D. Bray

Technical Services Supervisor

Allhomman 24 ago 1 of 12



Waste Profile

3100 Industrial Fo	uela Onwe-Scott City, 1	40 63790+(673)	651-3444-Fax	6573) 651-3621	-		For Tech	nical Use O	VLY	
Demos Units:	ıl.	Code No			Proces	s Code				
A. General Info	illiams O.	3	<u>C30</u>	66-01				Г	act Appeal	Cata Appro
Generator Name:					5. 8in	To:			100	10 25
Rosse	Lithocka	1.			Compa	ny Name:				
Facility Address:	Conservation	Phine	20			<u> </u>	amo			7.
2100 u	yandor	EVE	c use)	64/08	Address	τ.	/			
Maling Address:	/ 5		TERM	- 1700	City, Sta	te, Zo:				
	Dame	? =	<u>". </u>					•		
					Contect		7	Purchase	Order #:	
Generalor USEPA	LD.				Phone#					
molD	985	18/0	1014	16.4	f			Fax #;		
Technical Contact	1	MO I.D.		14. 7	Name of	Watte:		<u> </u>		
Calle	echean		1010	1010	1	1				
Phone &		Ser di	1010	17 9	5	plucat	·			
816-842-	4669	816-8	842-75	25	PROCESS !	Gan UP	e:			
C. Physical Cr.	taracteristics of V	17.20			(/	CAN OF				
Color:	Odor: 🗆 N	one AME	Projekal St Cl Solid	ete at 70° F:	Lagers:		Free Liquids:		Via contr.	
Golden	Describe:	•	Muquis		O Musika O Bi Lay	gred .	Z Yes		O Low Medium	-
pH: 0 ≤ 2.0	Heat Conte		Weight:		XSingle		Vokene_/C	٠ع	OHigh	
X 21-124		BTU/gal		Lbe/Ge/	Flash Poir	ጂ ጉ:	CI 140\200*		Halogens:	
D & 12.6	<u>>139</u>	20 BUND	Specific Gra	rvity	D 100-14	10°	X-200		1/0.10	
D. Chemical Con	rposition (Totals	must add up	to 180%)		E. Metal:	■ Tota	al (PPM)		4030	_ % Weght
		Water Conten	1 7.1		Arsenic	- 4		Seionium		P(PPM)
					Barium			Silver		
					Cedmium			Copper		
					Chromium Mercury	/	·	Nickel		
					Load			Zne `	7.3	
				~~~	F. Other	Components -	Total (ERts)			
		TOTAL		4000	Cyanides:		0001-	-	Sufficient	
G. Stupping Infor	mation	io į		100%	H Havar	NA lous Characte	6.0		104	
DOT Hazardous Mate	ortan? WYes D	No.			Reactivity:					
Proper Shipping Nem	<i>'</i> _ (	4 .	1:a.s.d	1205	rescurity:	J (None	D Pyros		O Shock :	Sensitive
007 Hazard Class:	Cambu		PG _///		Other Harry	D Explosion resous Characteri	•	r Reactive	(2) Other	
ID No. UN/NA	N4119		80		O 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		••	-1		
Method of Shipment	D Bulk Liquid					(S) None	© Radio e Mfg Wasie	DACTIVE	C Eticlogia	<b>≫</b>
	Drum (type/size)				is this a haz		defined by 40 CE	R 2617	C) Other	
	C) Other					□ Yes	D No	2311		
Anticipated Volume:	Ga	ls	Other (	)	USEPA hazz	ardous codes				
Per;	One Time	<b></b> Week	□ Month				nd Disposal Restri	ction per 40	CFR 268?	
	€ Quarter	(Annual	a	·		Q Yes	€ No		Mach Land Ban P	om.
l, Special Handling	g Information / Ac	iditional Com	ments Desc	ribe			· · · · · · · · · · · · · · · · · · ·			
		· · · · · · · · · · · · · · · · · · ·	<b>2</b> 00 a 1			/176		,		
		<del></del>	ambus				rokun ba	HILATES	<u>)                                    </u>	
			<u> </u>	mar Ath	414, <u>U</u> !	~ 1-1-12, [		ROH	128	
Certification										
	ample defined horsin CFR 261. I have revi									
	ected hazards have to sample presented to									
Generalor Signature:				T	Tible:				Dese:	
									1	

ATTAONA 24 2012

A Millennium Environmental Company 3100 Industrial Fuels Drive Scott City, MO 63780 573-651-3444

Fax: 573-651-3821

October 25, 1999

Rosse Lithographing 2100 Wyandotte Kansas City, MO 64108

# **RE: AUTHORIZATION LETTER**

We are hereby notifying you, the generator, that our Scott City facility has the appropriate waste management permits and is authorized to accept the following waste stream(s) generated by your company.

APPROVAL CODES:	WASTE STREAM NAMES:	MO STATE CODES:
C3066-01	Combustible Liquid (Solvent)	None
C3066-02	Combustible Liquid (Dampening Solution)	None
C3066-03	Non-RCRA Reg. Machine Oil	None
C3066-04	Non-Regulated Etching Solution	None
C3066-05	Non-Regulated Color Wash	None

Authorized Signature:

Laura D. Bray

Technical Services Supervisor

A division of ERD WASTE CORPORATION

# Waste Profile

				1 101110				
3100 Industrial Fue	ts Drive Good City, MO	63780-(573) 6	61-3444-Fgz (573) 851-3621	-	For Tech	nice! Use CALL	Y	
Sales Rep:		Code Na:	<del></del>	Process Code		70	Accorded 1	Chin Annual
Ronnic Wi	matter		3066-05	S. Bill To:	<u>55</u>		~~ I	10/25
Gegerator Name:				Company Name:				10 (0
Rassel	Thousas	hine	20		Samo			1.
Facility Address:	$\alpha$	0.0		Address:	/			
Maling Address:	yandoric	P	c, WO. 64/08	- C. C				_
	Same	3		Cley, State, Zip:		•		
				Contact		Purchase (	Order #:	
CONTROL USEPA!	.0.			Prone#:				
molo	1985	80	15 4 6 4			Fax #:		
Cool C	ochean	0 1.0.	20196	Name of Waste:	·ac Solo=		•	
Prons 4		Fax 6:	16-16-16-	Process Generating	in Sols7	·01		<del></del>
416-842-4	aracteristics of Was	<i>                                    </i>	12.7525	Lean u	da			
Color: Clear	Odor: 🗆 Non		Physical State at 70° F:	Layers:	Free Ucuids			
Blown	□ Samo		O Salida Ci Studge		MYes	•	Viscosty:	
PH: □≤ 2.0	Describe:	<del></del>	Xinter C	☐ Single Phased	Volume	98_x	Mulbedium O High	
pri: U.S. 2.0 22.1-12.4	Heat Content	BTU/gel	Weight: Lbs/Ga	Flash Point *F;	×140°-200°		Halogens:	
D≥ 125	13200	_ BTULLS	Specific Gravity	□ 100°-140°	D >200°		4030	% Weight
D. Chemical Com	position (Totals m	ust add up I	to 100%)	E. Metals	Total (PPM)			P (PPM)
		Water Content	2	Arsenic <	<b></b>	Selenium	4	
				Berium	<del> </del>	Silver	24	
				Oromium_		Copper Nickel	<del>-7</del>	
				Mercury		Zinc	4.6	
				Load				
				F. Other Compon Openides:	ents - Total (PPM)			
		TOTAL	. 100%	NA	PCB'E 45	.0	SUBSTACE .	
G. Shipping Intori			·	H. Hazardous Cha	uracteristics			
DOT Hazardous Mate et Proper Shipping Nam			liavid was	\ \	·	ephoric	() Shook	Sensitivo
DOT Hazard Class;	Combusti		PG III	I		ter Reactive		
IO No. UN/NA	NA 1993		RO	Other Hazardous Chu	,	et		
Method of Shipment	□ Bulk Liquid				resticide Mig Waste	Hoactive	☐ Eficiog ☐ Other	<del>jica</del> l
·	Ø Drum (type/eize)				tale as defined by 40	3FR 2817	Commer	
•	CI Other			ay				
Anticipated Volume:	Gafs		Other ( )	USEPA hazardous co	des			
Per:	□ One Time	O Wook	□ Month	is this waste subject to	a Land Disposal Res	riction per 40	CFR 2687	
	O Quarter	\$(Annual	<u> </u>	D,Y	es © No	if Yes, a	Mach Land Ban I	Form,
i. Special Handling	g Information / Add							
		<del></del>		rguid, n.o.s.	( Petroleum 1	retillate	ري	<u>'</u>
				· · Imarian	THE CALL	14128		
J. Certification								
bereby warrant the s	ample defined horein is	s truly represe	ntables of all physical and ch	errical properties of the	ratio drawn so make	d in the serve	das male data	and tal
accurate, and all susp	ected hazards have be	ec disclosed.	Correction Authorization Lau	Appending the and an area of	hed documents and th	at to the best o	a my knowledge	is the and
are contrastent det un	sample presented for	characterization	on and/or requirement requirement	ments of state 2/10 ledera	l agencies. I understar	d that I will no	pelve a corrected	1 copy
Generator Signature:				Title;			Date:	

A Millennium Environmental Company 3100 Industrial Fuels Drive Scott City, MO 63780 573-651-3444

Fax: 573-651-3821

October 25, 1999

Rosse Lithographing 2100 Wyandotte Kansas City, MO 64108

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C3066-02	Combustible Liquid (Dampening Solution)	None		
C3066-03	Non-RCRA Reg. Machine Oil	Nonê		
C3066-04	Non-Regulated Etching Solution	None		
C3066-05	Non-Regulated Color Wash	None		

Authorized Signature:

Laura D. Bray

Technical Services Supervisor



Wasta Drofile

-			HON		te Profi	le_				
Sales Rep:	uels Drive - Scott City.	MO 63780+(573)	651-3444-Fex (5	73) 651-3621	-		For Year	niced Use ON	LY	
1 20 co ( cob)	Dilliams o.	Code No	:		Process	Code G			7	
A. General Info	ormation	3	3066-1	)3		5	S	Ц	Acproved	Date Appp
Generator Name:					B. Bill T					10 25
Losse	Lithanda	phing c	_	•	Company	Name;				
Facility Address.		6 6 1 5 C	<u>.                                    </u>				2 mc			į
2100 L	Yantoric	: Lou	40.6410	~	Address;					
Mailing Address:		7	2, 2,70		City. State	7m:				
		me			<b>— ,</b> • • • • • • • • • • • • • • • • • • •	· <del>CH</del>	•			
					Contact	<del>```</del>		Purchase	Order di	
Generator USEPA	I.D.					· ·		1	Older #:	
MOB	10 10 1	1-1-	1-1	1	Phone#;			Fax #:		
Technical Contact	17 10 10	80	15 4	14.14				1	•	
0	. 1	100 1.0.	F 1		Name of W	aste:		<u> </u>		
CODYC	ochean	1011	120	96	Mar	hine a	a:/			
8/6-842-	4660	Fax #:	W2 10-			nerating Waste	<del></del>			
C. Physical Ch	aracteristics of V	1016°Y	42-1523	5	Cla		· 			
Color:		one ALMild	D	-45	7.					
Blown	os.	irong	Physical State	e at 70° F; □ Sludge	Layers:	rari	Free Liquids:		Viscosity:	
	Describe:		& Liquid	<u> </u>	20 Bi-Layers	ed .	D No		U Low Mediun	_
pH; □ ≤ 2.0	Heat Conte	ent:	Weight		DSingle P		Volume	%	DHigh	
2.1-12.4		8TU/gal		Lbs/Gal	□ <100°	₽:	□ 140°-200°		Halogens.	
□ ≥ 12.5	1940	D_BTU/Lb	Specific Grave	itv	☐ 100° 140°		£√-200°		100	
7. Chemical Con	position (Totals	must add up t	0 100%)		E. Metals		I (PPM)		1-0.	3⊘ % Weigh
$\gamma$		Water Content			Arsenic	んか	. (	C-1-1		LP (PPM)
<i></i>	mag	laine air	<u> </u>	)	Barium			Selenium Silver	NO 4	/
				<del></del>	Cadmium _	7		Copper		<del>′</del>
					Chromium_			Nickel		
			<del>-</del>		Mercury _			ZInc :	- /	
				<del></del>	Lead _	<u> </u>			_/	
						omponents -	Total (PPM)			
		TOTAL		100%	Cyanides: .	NH	PC8's: 45		Sulfides:	1
G. Shipping Inform	<u></u>				H. Hazardo	us Characte	ristics		I N	A
DOT Hazardous Mate		No			Acceptable.	None	□ Pyro	-thorin		
Proper Shipping Nam	o: NON	KCLA	NOT DOT	- la los		Explosive		r Acactive		ok Sensitive
DOT Hazard Class:			G1	0		ous Characteris		- HOUCEVE	□ 0the	r
D No. UNINA		F	no			None	O Radio	action.		
Aethod of Shipment	□ Bulk Liquid					O Pesticide		NECTIVE .	□ E6ok	
	(A) Orum (type/size)		•		ls this a hazan		defined by 40 CF	in neso	□ Othe	7
	□ Other					OYes □	DETINOO BY 40 CF	н 261?		
Anticipated Volume;	Ga	ls	Other (	,	USEPA hazaro		אבארס			
er;	□ One Time	□Week	□ Month					<del></del>		
	C Quarter	Annual	<u> </u>	. !			Disposal Restri			
. Special Handling	Information / Ac			oe		□ Yes	□ No	If Yes, at	Bach Land Bar	Form.
			1				•			
			Jon-K	CRA	Regula	Hed 1	Machine	Mit	<del></del>	<del></del>
					J			<u> </u>		
. Certification										

I hereby warrant the sample defined herein is truly representative of all physical and chemical properties of the waste stream as defined in the preceding profile date, and taken in accordance with 40 CFR 261, I have reviewed and am familiar with the information supplied in this and all attached documents and that to the best of my knowledge is true and accurate, and all suspected hazards have been disclosed. Correction Authorization: I authorize ERD-MO, Inc. and/or its representative(s) to make corrections to this profile which are consistent with the sample presented for characterization and/or regulatory requirements of state and federal agencies. I understand that I will receive a corrected copy.

Tride: 24Dama 6 of 12

Date:

A Millennium Environmental Company 3100 Industrial Fuels Drive Scott City, MO 63780 573-651-3444

Fax: 573-651-3821

October 25, 1999

Rosse Lithographing 2100 Wyandotte Kansas City, MO 64108

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C3066-03	Non-RCRA Reg. Machine Oil	None
C3066-04	Non-Regulated Etching Solution	None *
C3066-05	Non-Regulated Color Wash	None

Authorized Signature: _

Laura D. Bray

Technical Services Supervisor



A division of ERD WASTE CORPORATION

# Waste Profile

3100 Industrial Fue	els Drive-S	cotz City, MO	€3780 • (573) e	51-344 Fex (57	3) 651-3821			For Tech	nical Use ONL	Y	<del></del>
Sales Rep:	ıl.		Code No:		<u> </u>	Process Co.	de i	N 1)	1 7.	cti Acompai	-
Consicu:		s 03		<u> 306 (</u>	5-04		L	17 —	1	- Prova	IO DO
A. General Infor	rmation					B. Bill To:					101251
0	1	_ 1				Company N	arne:				
Facility Address;	ithog	Raph	129 60	),			Sa	me			7.
2100		. '0	<u>_</u>	Cuna	10100	Address:		7			
Mailing Address;	$\omega_{\gamma}$	au 401	TC F	cmo. C	14108	100					
	<b>'</b> 5	ame				City, State, Z	ab:	1			
						Contact		<i>/</i>	I Bb-	<u> </u>	
				•			. 4		Purchase	Order #;	
Generator USEPA I.	.O.					Phone#;			Fax #:	· ·	<del></del>
MOD	9	8 5	80	15 4	6.14	1					
Technical Contact:	1	7 JU	MO 1.D.		10 1/	Name of Was	da:			·	
- line	] .		11	1214	مايما		L.			Ť	
Phone &	che	an	1	TYIO	19 6	£7c	hine				
816-842.4	16109	İ	Fax 6;	42752	_		Can U				
C. Physical Ch	eris	tics of Was	ete	10 K	<u></u>		ican U				
Color:		Odor: (2 None		Physical State	at 70° F:	Layers:		Free Uquids		146	
		□ Stror	ng	☐ Solid	☐ Sludge	☐ Multilayere		TOYes '	•	Viscosity:	
Gleen	] 1	Describe:		<b>M</b> Liquid		D Single Pha		□ No Volume	aa	<b>Medium</b>	
pH: □ ≤ 2.0	1	Heat Content:		Weight:		Flash Point F		VOIZ 1.46	<u>//</u> %	D High	
2.1-12.4			_ 8TU/gal		Lbe/Gal	□ <100°	•	D 140°-200°	•	Halogens:	
□ ≥ 12.5		2140	_ BTU/Lb	Specific Grav	hy	□ 100°-140°		¥ >200°	•	40.30	% Weight
Chemical Com	position	(Totals mu	ust add up i	to 100%)		E. Metals	■ Tota	(PPM)		TCL	
		,	Water Content	1 20	·	Arsenic	2		Selenium	<u> </u>	(******
					<u> </u>	Barium			Silver	8,2	<del></del>
		<del></del>			· · · · · · · · · · · · · · · · · · ·	Cadmium			Copper	4	
					_	Chromium_			Nickel	1.2	
						Mercury	<del></del>	·	Zinc	20	
<del></del>				<del></del>		Lead	-				
					<del></del>	F. Other Co.	mponents -	Total (PPM)			
			TOTAL		100%	Oyanides:	דכ	PC8's:	5.0	Sulfides:	
G. Shipping Inford	mation		.0146		·~.	H. Hazardou			3·O	NTF	
DOT Hazardous Mate		Yes 🕍 No			1/	f					
1 Proper Shipping Nam	J	ວຸລີ ດ	07 R.	pulated	1/2	Reactivity:	Nona		ophoric	□ Shock	Sensitive
PIOPER SIMPLING MAIN DOT Hazard Class:		/			NOD		CI Explosiv		ter Reactive	Other	
ID No. UN/NA				PG		Other Hazardo		stics:			
		Lieude	·	RQ	·		None	•	dioactive	☐ Etiolog	cal
Method of Shipment	D Butk I	-						Mig Waste		○ Other	
	- (	(type/size) _				Is this a hazard	lous waste as	defined by 40	CFR 261?		
	☐ Other	_	<del></del>				☐ Yes	on Dec			
Anticipated Volume:		Gals		Other (	)	USEPA hazard	ous codes^	JA _		·	
Per:	C One 1	Time	□ Week	□ Month		is this waste su	bject to a Lar	nd Disposal Res	driction per 40	CFR 268?	
	C) Quan		Annual	o_Ll)n	<b>1</b>		Q Yes	. □ No		ettach Land Ban I	Ťorm,
. Special Handling	g Inform	ation / Add	litional Com	iments Descr	be		• • •				
			•								
				Von	- Kegu	lated E	tchina	solution			
					J -		<del> </del>				

J. Certification

Consenter Simplime:

I hereby warrant the sample defined herein is truly representative of all physical and chemical properties of the waste stream as defined in the preceding profile date, and taken in accordance with 40 CFR 281. I have reviewed and am familiar with the information supplied in this and all attached documents and that to the best of my knowledge is true and accurrate, and all suspected hazards have been disclosed. Correction Authorization: I authorize ERD-MO, Inc. and/or its representative(s) to make corrections to this profile which are consistent with the sample presented for characterization and/or regulatory requirements of state and federal agencies. I understand that I will receive a corrected copy.

ATTION The 24 8 of 1

Date:

A Millennium Environmental Company 3100 Industrial Fuels Drive Scott City, MO 63780 573-651-3444

Fax: 573-651-3821

October 25, 1999

Rosse Lithographing 2100 Wyandotte Kansas City, MO 64108

### **RE: AUTHORIZATION LETTER**

We are hereby notifying you, the generator, that our Scott City facility has the appropriate waste management permits and is authorized to accept the following waste stream(s) generated by your company.

APPROVAL CODES:	WASTE STREAM NAMES:	MO STATE CODES:
C3066-01	Combustible Liquid (Solvent)	None
C3066-02	Combustible Liquid (Dampening Solution)	None
C3066-03	Non-RCRA Reg. Machine Oil	None
C3066-04	Non-Regulated Etching Solution	None
C3066-05	Non-Regulated Color Wash	Nore

Authorized Signature:

Laura D. Bray

Technical Services Supervisor

24 Por 9 05 6



# Waste Profile

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hereby warrant the sample defined herein is truly representative of all physical and chemical properties of the waste stream as defined in the preceding profile date, and taken a accurate, and all suspected fuzzards have been disclosed. Correction Austrorization; I authorize ERD-MO, Inc. and/or its representative(s) to make corrections to this profile which are consistent with the sample presented for characterization and/or regulatory requirements of state and lecteral agencies. I understand that I will receive a corrected copy.

This:

74 -10-14

Date:

A Millennium Environmental Company 3100 Industrial Fuels Drive Scott City, MO 63780 573-651-3444

Fax: 573-651-3821

October 25, 1999

Cody Cochran Rosse Lithographing 2100 Wyandotte Kansas City, MO 64108

**RE: AUTHORIZATION LETTER** 

We are hereby notifying you, the generator, that our Scott City facility has the appropriate waste management permits and is authorized to accept the following waste stream(s) generated by your company.

**APPROVAL CODES:** 

WASTE STREAM NAMES:

**MO STATE CODES:** 

C3066-06

Non Hazardous, Non RCRA, Non DOT Regulated

**NONE** 

**Authorized Signature:** 

Laura D. Bray

Technical Services Supervisor

ATTACH EL 24 you haile

FROM ; FAX	NO. :			Nov. 2	23 1999 <i>8</i> 9:	178M P3
Adivision of Millennium Environmental, Inc.		Prof	ie #		Date Approved:	Toon Approved
WASTE PROFILE C3004-C	٧.		States Dates	•	Fire Hersing Co	de; Res d3
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CUSTOMER NAME:

CUSTOMER NO: 7589

ROSSE LITHOGRAPHING CO.

JOB NO:

92526

2100 WYANDOTTE

INVOICE NO:

10239

KANSAS CITY, MISSOURI 64108

INVOICE DATE: JUNE 9, 1992

ATTENTION: KEITH GLOE

DESCRIPTION OF WORK

EMERGENCY SPILL RESPONSE SERVICES

DATES OF WORK

AMOUNT BILLED

JUNE 3, 1992

\$1,188.26

TOTAL AMOUNT DUE:

\$1,188.26

TERMS: NET DUE TEN (10) DAYS

WE APPRECIATE YOUR BUSINESS

A Division of



JOB # 92526

DATE: 06/03/92

LABOR	REG REG HOURS RATE	OT HOURS	OT RATE	AMOUNT
PAUL WRABEC, SR PROJ MGR LEO OHLHAUSER, RECOV TECH ROGER MERRITT, RECOV TECH	4.00 \$85.0 4.00 \$32.0 4.00 \$32.0 0.00 \$0.0 0.00 \$0.0 0.00 \$0.0 0.00 \$0.0	0.00 0.00 0.00 0.00 0.00 0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	
TOTAL LABOR	0.00 \$0.0	0.00	\$0.00	0.00
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EMERGENCY RESPONSE VAN FLATBED BARREL LIFT TRUCK AUTOMOBILE	NO CHARG	4.00 4.00 0.00 0.00 0.00 0.00 0.00	\$82.69 \$26.25 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	105.00 0.00 0.00 0.00 0.00
TOTAL EQUIPMENT				\$435.76
MATERIAL & MISC.		QUANTITY	RATE	AMOUNT
FLOOR DRY ABSORBANT BAGS RECOVERY DRUMS	PER EACH		\$8.50 \$29.50 \$0.00 \$0.00 \$0.00 \$0.00	\$68.00 88.50 0.00 0.00 0.00 0.00 0.00
• .				\$156.50
TOTAL DAILY COST				\$1,188.26

	,
	3001 East 83rd Street Kansas City, Missouri 64132
	Kansas City, Missouri 64132
<b>ENVIRONME</b>	NTAL SPECIALISTS, INC.

MATERIALS

JOB#	92526	

UNIT PRICE

8,50

**AMOUNT** 

68.00

ENVIRONMENTAL SPECIALISTS, INC.		P.O.#		· · · · · · · · · · · · · · · · · · ·
NAME ROSSe Litho.	ADDRESS			
REMARKS 63/92 EmergeNcy Spill	Response	2 Service	చ	
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LABOR NAME & CLASSIFICATION	CODE	HOURS	UNIT PRICE	AMOUNT
Paul Wrabec-Sr. Proj Man.		ST H.O	85,00	340.00
Leo Ohlhauser-Recovery Tech		ST 4,0	35.00	128.00
Roger Merrit - Recovery Tech		STH. O	33.00	128.00
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EQUIPMENT-NUMBER & DESCRIPTION	CODE	HOURS	UNIT PRICE	AMOUNT
Emergency Response VAN.		4.0	82.69	330.76
Flatbed Bankel Lift Fruck		4.0	26.25	105.00
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		TOTAL EC	QUIPMENT	435,76

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LABOR NAME & CLASSIFICATION	CODE	HOUNG	PRICE	
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Emergency Response VAN.		4.0	82.69	330,76
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		TOTAL E	QUIPMENT	435,76
MATERIALS	CODE	QUANTITY	UNIT PRICE	AMOUNT
FICDIN Absorbat Base.		S (A	8,50	68.00
Recovery Drums		Ben	29.50	88.50
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	•	TOTAL N	MATERIALS	1156.50
DATE 6392	<del></del>			
PREPARED BY OWNERS				11100
SIGNATURE		TOTAL TH	HS REPORT	1188.26

ATTACHMENT 25 Page 4 of 6

68.00

8,50

	3001 East 83rd \$ Kansas City, Misso	treet uri 64132
_	NTAL SPECIALIS	

Fly Dru Absorbat Base

JQB #	92526	
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OWNERS ROSSE Litho.	_ ADDRESS			
REMARKS 63/92 Emergency Spill	Response	2 Service	<u>.</u>	
LABOR - NAME & CLASSIFICATION	CODE	HOURS	UNIT PRICE	AMOUNT
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Paul Wrabec-Sr. Proj Mau.		S7 4.0	85.00	340.00
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Leo Ohlhauser-Recovery Tech		IST 4, 0	33.00	138.00
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		TOTAL EQUIPMENT		435,76
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MATERIALS	CODE	QUANTITY	UNIT PRICE	AMOUNT
Ir Dry Absorbat Bogs		8 8 A	8,50	68.00
Secoura Drums		Ben	29.50	88.50
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City of Kansas City Kansas City Health Department Air Quality Program, 3rd Floor 2400 Troost Avenue Kansas City, Missouri 64108



### Emissions Inventory Questionnaire (EIQ) FORM 1.0 GENERAL PLANT INFORMATION

(=					Silau	ed Areas for Off	ice use Only	
Facility Name				FIPS		Plant No.	County No.	Year of Data
Rosse	Address Address	aphina C	_0MQ&A4	09	Z	J030	2240	99
Facility Street	Address	7	<del>- \ , )</del>	County N	lame	Region	Classification	
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Facility Mailing	g Address	1		Product/I	Principal Act	ivity		
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City	$\mathcal{O}$	ZIP	Code	Number o	of Employees		Land in Acres	
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Facility Contac	t Person	Title	2 1 100			Future (Check C		·
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Brian	(0)0e		o-CRE				arent oo. maning Add	1632
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Parent Compan	ıv Name		432					
	, y			Contact Perso	on	Pt	none Number	
Mailing Addres	S			City	· · · · · · · · · · · · · · · · · · ·	St	ate ZIP Code	
	-							
	TO	TAL PLANT	EMISSIONS	FROM FORM	1 3.0 (TONS	SPER VEAR)		
PM10	SOx	NOx	voc	СО	LEAD	·		•
			17.55					
The undersigne	d hereby certifies tha	it they have persona	illy examined and a	re familiar with the	information and	d statements contain	ned herein and further	certifies
	this information and the facts presented i				signed certifies	that knowingly mak	ned herein and further ling a false statement o	cerdiles f
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Brian	, Gloc	_	(	CO-CEO	Olleck All	louit		
ignature	es 1		[	Date	Check Nu	mber		
rint Name of Autho	orized Company Repr	resentative		3-30-00	Check Dat	te		
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MO 780-1431 (11/99)

ATTACHMENT 26 Page Lot 10

#### FORM 1.1 PROCESS FLOW DIAGRAM

Facility Name	FIPS County No.	Plant No.	Year of Data
Rosse Lithernshins	0.095	2030	1099
Rose L' the graphing College use this page or a separate sheet to provide a so not forget to include all processes used in your factors.	Process Flow Diagram per ti	he instructions for Fo	rm 1.1 in the Instruction Packet
dentification number for all emission points (including	a finitive emissions) and all	th process and piece repollution control equ	of equipment and provide an
Make sure to use the same Identification number thro	ughout the entire EIQ.	,	especie
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MO 780-1619 (11/99)

Duplicate this form as needed.

ATTINUME 136 2002 0110

## FORM 1.2 SUMMARY OF EMISSION POINTS

acility Name		FIPS County No.	Plant No.	Year of Data
R	osse Lithographing Conpany	095	2-030	1999
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ATTACHMENTER 128 3 0110

1	Name				MATION	•		Coun	ty No.	1	Plant No	1	Vac	r of Dat	4
			t						-			•	rea		
R	0556	<u> </u>	thogra	phing	Com	Panu	d <del>e</del> roe		095	5	20	30		99	9
Point No	).	AIRS	ID-Ex	SIC Code	F	oint De	criptic	NIIFICA II	ON						
EP.	\			275	2	Pre-	Pres	si Ope	ratio	30					
			Code (SCC)	E	mission	-		Nu	ımber of	SCCs U	sed with	this Poi	nt	S	eg. No
		598			احطا	1,000	امه								
SCC Des	criptio	n Pala Gen	erat			(	<i></i>								
		工小	1 4hiniz	s solven	+-0+	her h	1.+ 5	Spectifi	ed						
Stack No.			AIRS ID - S	t Heigh		STACK		PARAMET eter (Ft)	TERS						
No	ne				-		Diam	eter (Ft)		(A	Dian	non-cir neter = (1 Sections	.128A	^1/2	éetì
Temperat	ure (F)		Velocity (F	/Min)		Flow Ra	te (Cu	Ft/Min)				points si			
Device No	o. D	evice	Descr	iption of C	Ontrol De	AIR PO		ON CONTR	ROLS						
	C	ode			O1141 01 DC	VICE	1	Capture fficiency (%	%) PM			evice Ef	ficienc co		HAPs
None															110013
					[4] (	PERAT	NG RA	ATE/SCHEI	DULE						
Annual Th			\		Units			Hours/Da			Jan-Ma	ar (%)	Α	pr-Jun (	(%)
3	, 64	2 9	اء	2	1,0	20 ga	\	Days/Wed	-9 ek		2	5		20	
Maximum	Hourly	Design	Rate		Units\Hi			2	5	7	Jul-Se	p (%)	0	ct-Dec (	(%)
	0,0	$\infty / \infty$	)			gall	hr		2		27	5		30	
ource of	Emissi	on Fact	or: (List be	elow in [6])	E	MOISSIN	IS CAL	CULATION		NOther Ref	erence	IEI Link	-41-		
CEM Stack Test		3 Mass	Balance or FIRE	5 Other 6 Eng Ca		## Wo	rksheet dentify i	Number worksheet)		in diei Kei		[5] LIST	otner w	orksheets	s.
Air	S	Emiss	[7] sion Factor	[8]	[9			[10]		aximum		otential		Poter	ntial
Pollutant	[6] u	1	os/Unit)	Ash or Sulfur (%)	Ove Con Efficie	rol	En	Actual nissions 'ons/Yr)	Hou	ly (Lbs/l		ontrolled Fons/Yr)		Uncont (Tons	rolled
M10					(%	)									
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# FORM 2.3 VOC PROCESS MASS-BALANCE WORKSHEET

Facility Name			FIPS	County No.	lant No.		Year o	of Data
8 \\	\			095	2030		19	199
Point No.	phing com	AIRS ID-Pt	Sour	ce Classification C				Seg No.
EPI				0500598	(/			Seg No.
•	III TOTAL AN	NUAL THROUGHPI			COENDO			
		A		B	C	ח		E
Application Method	Material Type	Annual Throughpu Units/Yr)	it (SCC		Density (Lbs/Gal)	Lbs of per U	voc.	VOC (Lbs/Yr)
See Attached	Sheet							
Enter the TOTAL ANNUAL THRO calculated to the right, in Blo	ock 4 Annual	TOTAL ANNUA THROUGHPUT (SCC Units)	Г	If A is in gallons, then B x C: If A is in tons, then B x 200				OTAL VOC (Lbs/yr)
,		3,6,12			D = E		\	20
	[2]	CALCULATION OF	VOC	RECOVERED				
	{Material Shipped	LBS OF VOC RE as Hazardous Was	COVE	RED =	of Wastel	•	2	
Material Shipped as Hazardous V		% VOC Content of			Lbs of VOC R	acovered	1	
							•	
Documentation must be supplied	d to support the a	mount of material s	hipped	and the % VOC C	ontent.			
•	[3] CALCUI	ATION OF VOC EM	ITTED	PRIOR TO CONT	ROL			
		Lbs of VOC) - {Lb			**			
Lbs of VOC Emitted Prior to Contr								
	15	,919,58	lbs					
	[4] (	ALCULATION OF E	EMISSI	ON FACTOR				
		EMISSION FA						
{Lbs	of VOC Emitted F	Prior to Control Equ	ipmen	t} / {Total Annua	Throughput]	}		
ESJOH I BELOF HI EDS/UNIT		4,37 16	sla	a\				
-								

Enter the EMISSION FACTOR in VOC Box of Block 7 on Form 2.0, Emission Point Information.

MO 780-1440 (11/99)

Duplicate this form as needed.

ATTACHALL 1726 Fage 5 of 10

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Facility			TON POIN	INFORM	MATION			C	ounty N	10.	PI	ant No.		Yea	r of Dat	a
Ros	isc	4:1	Jograph:	na C	om pan		*		09	5		203	10		99	
3/7/					, [	POIN	TIDE	VTIFIC	ATION							
Point No	<b>).</b>	AIRS	Pt Pt	Ste Code	1	int Desc	-							All the second		
EP:			ブ	275	2 .	Shee	4	col	T;	tho	Pre	دی حد	2			
Source C	Classific	cation	Code (SCC)	E	mission Fa				Numb	er of SC	Cs Use	ed with	this Poir	nt	S	eg. No.
40	500	401			1501	Ton .	TF	nk								
SCC Des	criptio	16	nerator	762	5				-						<u> </u>	
						STACK	VENT	PARAI	METER	S						
Stack No	ne		AIRS ID - S	t Height	t (Ft)		Diame	eter (F	t)		(A =	Diam	non-cire leter = (1 Sections	1.128A)	}^1/2	eet)
Tempera	ture (F)		Velocity (Ft	/Min)	F	low Rat	e (Cu	Ft/Min	)				points si	1000		
										and the second						
Device N	o. D	evice	Descr	iption of Co		VIR POL		ON COL		3	Co	ntrol D	evice Ef	ficiona	(9/ \	
	C	ode		li li			1	ficienc		PM10	sox	NOx	VOC	co	Lead	HAPs
					0					<u> </u>					1	
					[4] OF	PERATII	VG RA	TE/SC	HEDU	LE						
Annual Th	rough	put			Units			Hour	s/Day			Jan-Ma	ar (%)	A	pr-Jun	(%)
					To	45		Days	Week	1		3	2.		2.8	
imum	Hourly	Desig	n Rate		Units\Hr			100	_5			Jul-Sep	0 (%)	0	ct-Dec (	(%)
	0,∞	370	)		rall	Tor	)	vveek	s/Year よっ			2	5		30	
Source of	Fmissi	on Far	tor: (List be	Nousie (CIV	EM	ISSION	SCAL	CULA	TIONS					-		
1 CEM 2 Stack Tes		3 Mass	Balance 2 or FRE	5 Other 6 Eng Ca		## Wor Please id				AP 42\0t	ier Refer	епсе	[5] List	other w	orksheet:	s.
Air Pollutant	[6] u		[7] sion Fāctor .bs/Unit)	[8] Ash or Sulfur (%)	[9] Overa Contr Efficier	ol	En	[10] Actual nission ons/Yi	ns	Maxi Hourly	mum (Lbs/Hr	) C	ontrolled ons/Yr)	d l	Poter Uncont (Tons	rolled
PM10					(%)											
SOx										•						
VOX																
/oc 23	23	2	2201				0	Y0.								
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Duplicate this form as needed.

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# FORM 2.3 VOC PROCESS MASS-BALANCE WORKSHEET

Facility Name				FIPS (	County No.	Plant No.		Year	of Data
Rosce L	though	unhian C	Am 0		095	2030		19	99
Point No.		PARTITION OF	AIRS ID-P		ce Classification	Code (SCC)	_		Seg No.
		[1] TOTAL AN	NUAL THROUGHP	JT AN	D TOTAL POUNE	S OF VOC			
			Α		В	С	D		E
Application Me	ethod	Material Type	Annual Throughpu Uniṭs/Yr)	t (SCC	% by Wt of VOC in Material	Density (Lbs/Gal)	Lbs of per U		VOC (Lbs/Yr)
		Ink Wash	18.70		30%				11,220
		Conting	29.03		6%				3,484
		Lacolere	1.62		100%				3 240
		Hoohal	0.62		100%				1,240
Enter the TOTAL AND calculated to the Through	NUAL THRO right, in Blo put on Form	ock 4 Annual	TOTAL ANNUA THROUGHPU (SCC Units)		If A is in gallons, then B x C			19,	OTAL VOC (Lbs/yr)
			TOAL		А	x D = E		•	PZ 10C
		[2]	CALCULATION OF	VOC	RECOVERED				
		(Material Shipped	LBS OF VOC RE as Hazardous Was			t of Waste}			
Material Shipped as I	Hazardous V	Vaste	% VOC Content of	' Wast	е	Lbs of VOC F	Recovered	d	
			30	/.	*				
Documentation mus	t be supplie	d to support the ar	mount of material s	hipper	and the % VOC	Content			
	-	· [3] CALCUI	ATION OF VOC EN	AITTEC	PRIOR TO CON	TROI			
			EMITTED PRIOR						
		(Total	Lbs of VOC} - {Lb	s of V	OC Recovered)				
Lbs of VOC Emitted P	rior to Cont	rol	19,184	241	Y				-
		[4] (	CALCULATION OF						
			EMISSION F	ACTO	₹=				100
		of VOC Emitted F	Prior to Control Equ	ipmer	it} / (Total Annu	ial Throughput	}		
Emission Factor in Lt	os/Unit		383,91	bs	1				
			20 21 11	- 14	100				

Enter the EMISSION FACTOR in VOC Box of Block 7 on Form 2.0, Emission Point Information.

MO 780-1440 (11/99)

Duplicate this form as needed.

STATE OF MISSOURI
Department of Natural Resources
Air Pollution Control Program
205 Jefferson Street, P.O. Box 176
Jefferson City, Missouri 65102

# FORM 3.0 KC EMISSIONS FEE CALCULATION (Kansas City)

Facility Name				-	FIPS County No.	Plant No.	Year of	Data
[1] POINT No.	(Use one row to than one page is year and round t	list the emissions needed, use the f to two [2] decimal	from one emis	sion point. Sum the	e emissions in the pa list the page totals fro	ge total box at the om this page. Ex	e bottom of the co	olumn If more
scc		a trio [2] decimal	piaces.)					and in total pi
	PM10	SOx	NOx	VOC	Pollutant			
EPI		30%	NOX	VOC	СО	LEAD	HAPs	
40500598				7.96				
EP2				116				
EPZ 40500401				9.59				
						-		
	1							
				9				
PAGE								
TOTALS								
	NOTE: FIL	LOUT THE	LOWER P	ORTION OF	THIS FORM O	NE TIME O	MIV	
2] ACTUAL EMISSIONS	(Make sure to use	the sum of ALL pa	age totals for ea	ach pollutant for the	a actual aminais a 5	THE THIL O	I V.L. I .	
	PM10	SOx	NOx	VOC	CO			
				100		LEAD	HAPs	
	-			17.55				
Copy th	ne Actual Emis:	sions from [2] f	o the appro	priate box(s) in	the Total Plant En	nissione sacti	on of Form 4.0	
CHARGEABLE EMIS	SIONS (Maximum 4	1,000 Tons/Yr Cap	per Pollutant)				of of Former.	
				T	NO FEES			
SUM OF CHARGEAB	I F FIMOSIONIO ON			17,55	FOR CO			
(Maximum 12,000 tons	s per year cap; rou	BJECT TO FEES nd figure to neare:	st ton ner vear					
TOTAL ANNUAL EMIS						1:	7.55 1	ons/Yr
(\$25.70 PER TO	N OF POLLUTANT	LISTED IN Box 4)		One Ton				
				Minimum	\$ 451.0	3		
ANNUAL EMISSIO	MOTEL REBIL	Check Date	ANSAS CIT	Y AIR AGENCY	(If Applicable)			
22578		3-30	_		Amount Remitte	ed in Calenda	r Year of Reco	rd
ANNUAL EMISSIO	NS FEE REMIT	TED TO THE S	TATE (Pay 6		\$			
heck Number		Check Date		manus Box 6)	CI I			
					Check Amount			
Include a check for	or the amount i	3 - 30 n Box 7, payab	le to the Mic	Souri Air Dollut	\$ 451.03			
ogram. Mail the ch	eck for the emi	ssions fee to ti	he state air a	Igency listed at	the top of this	[9] Send t	he completed	
							onnaire and an ting document	y tion
acilities within Loc	al Air Program	jurisdiction on	ly need to in	clude copies of	Forms 1.0, 3.0 ar	d to the a	agency listed a	t
	issions fee che	ck to the Jeffer	rson City add	dress	,	the top	of Form 1.0.	
O 780-1505 (11/99)			Duplicate	this form as ne	eded			

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#### FORM 4.0 FINANCIAL COST ESTIMATE

Facility Name	- 1	PS County No.	Plant No.	Year of Data
The Missouri Air Law, Chapter 643 requires a formation of the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following	1100	790	2030	1999
The Missouri Air Law, Chapter 643 requires a four firms of the federal Clean Air A	inancial cost estimate. T	he cost estimate l	s an evaluation of any	y additonal costs of doing
Please calculate the cost and expenses incurre emission fees. If you hired an outside consult incurred if you installed air pollution control ed incurred to comply with the Missouri Air Law a	ant, please include the tir Buidment, any additional	me and money cha monitoring or tes	raed to vour compan	W Also Include any cost
PLEASE BE SURE T	O USE THE CODES.	SEE INSTRUC	TIONS FOR LIST	S.
Category Reporting	CODE for Personnel or Equipment	Total Numbo of Hou Require	er per rs Hour	Total Cost
[1] EIQ reviewed and completed by Company Personnel (Engineers, Technical Specialists, Others)		28	\$150	\$4,200
[2] EIQ completed by outside Engineering Consultants			,	
[3] Pollution control equipment, monitoring, or testing (Please list items separately)				·
4] Estimate of the number of jobs added to implement the federal Clean Air Act, as amended		100	\$ 80	\$8,000
[5] Personnel and other costs associated with complying with the Clean Air Act, as amended, which have not been included above (Please list items separately)				
TOTAL				\$12.200
Remarks			-	

Phone 573-651-3444 Fax 573-651-3821

Land Disposal Restriction Forn

			Land Disposal I				
ator: R	osse Li-	thograp	hina		US EPA ID #: MC	00985	805464
	3100 113		10	\ <u> </u>	C.,		
Address:	aio u	gair coot	TE City:	<u>kunsus</u>	State: A	<u>40</u>	Zip: <u>64108</u>
est Docum	ent #:	<u>a</u>			<b>O</b>		
	•						
I	ine Item 1		Line Item 2		Line Item 3	T	Y in a Year of
Chec	k if not applicable	(Ch	eck if not applicable	Ch	eck if not applicable	•	Line Item 4
Profile #	<u>C3066-0</u>	O \ Profile:	4 C3066-02	Profile #	#C3066-03		C3066-0
	NWW[] WW[]		NWW[] WW[]		NWW [ ] WW [ ]	I	NWW[] WW[]
	·			<u> </u>		_1	******
			EPA W	aste Cod	les		•
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			Reference Num	bers (See /	Attached Listing)		
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				1		1	
						+-+	
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<del>-  -</del>				1		+	
Does this	vaste contain be	nzene, which is re	quired to be controlled a	nd treated in	accordance with the pro	ovisions of	40 CI
			subpart FF	[61.342(f)(2	)}?		
_	Yes Mo	ı I	Yes No	1	Yes No		Yes No

Notification Statement: This waste must be treated to the applicable treatment standards set forth in 40 CFR 268 Subpart D, Section 268.32, or RCRA Section 3004 (d). Waste analysis is attached where available, otherwise the information herein is based upon any thorough knowledge of the waste(s). I hereby certify that the information provided is complete and accurate based on any knowledge of the materials.

Generators Signature:	Coly Cahis	Date:	1-16-99
-----------------------	------------	-------	---------

Allaum. 21 age Lot 6

Treatment Standards for F001 - F005 Spent Solvents

Generator Name: Rosse Lithographing US EPA ID # MOD985805464

	Constituents of	Nonwaste		J	1	1		
	concern	Total	Water	Wastewater Total	LineItem 1 Check if not	Line Item 2 Check if not	Line Item 3 Check if not	Line Item 4 Check if not
Ī		composition	TCLP	composition	applicable	applicable	applicable	applicable
-	T	mg/kg	mg/L	mg/L	M	X	Ŋ.	. M
Ref. #	F001							
44	Carbon tetrachloride	5.6	-	0.06				
156	Methylene chloride	33	<u> </u>	0.09				
213	Tetrachloroethylene	5.6	-	0.06				
224	1,1,1-Trichloroethane	5.6		0.05				
226	Trichloroethylene	5.6	-	0.05				
232	1,1,2-Trichloro- 1,2,2-trifluoroethane	28	-	0.06				
227	Trichloromonofluoro- methane	33		0.02				
Ref. #	F002							
48	Chlorobenzene	5.7	-	0.06				
80	o-Dichlorobenzene	6.2	-	0.09				
156	Methylene chloride	33	-	0.09				
156	Methylene chloride (Parmaceutical Industry- Wastewater Subcategory)		•	0.44				
213	Tetrachloroethylene	5.6	-	0.06				
224	1,1,1-Trichloroethane	5.6	<del></del>	0.05				
225	1,1,2-Trichloroethane	7.6		0.03				
226	Trichloroethylene	5.6	-	0.05				
232	1,1,2-Trichloro- 1,2,2-trifluoroethane	28	-	0.06				
227	Trichloromonofluoro- methane	33	-	0.02				
Ref. #	F003							
4	Acetone	160	_	0.28				
35	n-Butyl alcohol	2.6	-	5.6				
68	Cyclohexanone*	-	0.75	0.36*				
120	Ethyl acetate	33	-	0.34				
121	Ethyl benzene	6	-	0.06				·
123	Ethyl ether	160		0.12				
149	Methanol*	-	0.75	5.6*				
158	Methyl isobutyl keytone	33	-	0.14				
237	Xylene(total)	28	-	0.32				
Ref.#	F004							
65,66	Cresol (m-and p-isomers)	3.2	-	0.77				
64	o-Cresol	5.6		0.11				
169	Nitrobenzene	14	-	0.07				
Ref.#	F005							
25	Benzene	3.7	-	0.07		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		
43	Carbon disulfide*	-	4.8	0.014*				
	2-Ethoxyethanol	INCIN	-	BIODG; or INCIN				
143	Isobutyl alcohol	170	-	5.6			•	
157	Methyl ethyl keytone	36	-	0.28				
	2-Nitropropane	INCIN	-	(WETOX or CHOXD)				
205	Pyridine	16	-	0.01		· · · · · · · · · · · · · · · · · · ·		
218	Toluene							
		28		0.01				·

treatment standards for Carbon Disulfide, Cyclohexanone and Methanol nonwastewaters are based on the TCLP and apply only to spent solvents containing one, two, or all three of these constituents. If a waste on the treatment standards for the other constituents along with any other constituents found in F001 - F005, then only the treatment standards for the other constituents apply (i.e., the standards for Carbon Disulfide, Cyclohexanone and Methanol do not apply when other constituents are present)

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Phone 573-651-3444 Fax 573-651-3821

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	Does this	waste c	ontain benzene,	which is re	quired (	to be con	trolled a	and treated i	n accord	lance wit	th the pr	ovisions of		40 (	CFR 61
-						sub	part FF	[61.342(f)(2	2)]?						
L		Yes	No		Yes		0	[	] Yes	[]N	0	ſ	Yes	[ ] No	,

Notification Statement: This waste must be treated to the applicable treatment standards set forth in 40 CFR 268 Subpart D, Section 268.32, or RCRA Section 3004 (d). Waste analysis is attached where available, otherwise the information herein is based upon any thorough knowledge of the waste(s). I hereby certify that the information provided is complete and accurate based on any knowledge of the materials.

Generators Signature:	Cody Cichia	Date: _	11-16-99
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Generator Name: Rosse Lithographing US EPA ID # MOD985805464

		<del>,                                      </del>		<u> </u>				
Constituents of		Nonwastewater Total		Wastewater	LineItem 1	Line Item 2	Line Item 3	Line Item 4
	concern		TCLP	Total composition	Check if not	Check if not applicable	Check if not	Check if not
		composition mg/kg	mg/L	mg/L	applicable	аррисавие	applicable .	applicable
Ref.#	F001				7			, , , ,
44	Carbon tetrachloride	5.6	-	0.06				
156	Methylene chloride	33	-	0.09				
213	Tetrachloroethylene	5.6	-	0.06				
224	1,1,1-Trichloroethane	5.6	-	0.05				
226	Trichloroethylene	5.6	-	0.05				
232	1,1,2-Trichloro- 1,2,2-trifluoroethane	28	-	0.06			·	
227	Trichloromonofluoro- methane	33	-	0.02		ı		-
Ref. #	F002							
48	Chlorobenzene	5.7	-	0.06				
80	o-Dichlorobenzene	6.2	-	0.09				· · · · · · · · · · · · · · · · · · ·
156	Methylene chloride	33	-	0.09		a	· · · · · · · · · · · · · · · · · · ·	
156	Methylene chloride (Parmaceutical Industry- Wastewater Subcategory)	-	-	0.44				
213	Tetrachloroethylene	5.6	-	0.06				
224	1,1,1-Trichloroethane	5.6	-	0.05				
225	1,1,2-Trichloroethane	7.6	-	0.03			·····	
226	Trichloroethylene	5.6		0.05				
232	1,1,2-Trichloro- 1,2,2-trifluoroethane	28	-	0.06				
227	Trichloromonofluoro- methane	33	-	0.02				
Ref.#	F003							
4	Acetone	160	-	0.28				
35	n-Butyl alcohol	2.6	-	5.6				
68	Cyclohexanone*	-	0.75	0.36*				
120	Ethyl acetate	33	-	0.34				
121	Ethyl benzene	6		0.06				
123	Ethyl ether	160	-	0.12				
149	Methanol*	•	0.75	5.6*				
158	Methyl isobutyl keytone	33	-	0.14				
237	Xylene(total)	28	-	0.32			- i	
Ref.#	F004				<u> </u>			
65, 66	Cresol (m-and p-isomers)	3.2	-	0.77				
64	o-Cresol	5.6		0.11				
169	Nitrobenzene	14	-	0.07				
Ref.#	F005		<u> </u>			·		
25	Benzene	3.7	-	0.07				
43	Carbon disulfide*	-	4.8	0.014*				· · · · · · · · · · · · · · · · · · ·
	2-Ethoxyethanol	INCIN	-	BIODG; or INCIN				
143	Isobutyl alcohol	170	-	5.6				
157	Methyl ethyl keytone	36		0.28				
	2-Nitropropane	INCIN	-	(WETOX or CHOXD)				
205	Pyridine	16	-	0.01				
218	Toluene	28		0.08				
				0.00				

e treatment standards for Carbon Disulfide, Cyclohexanone and Methanol nonwastewaters are based on the TCLP and apply only to spent solvents containing one, two, or all three of these constituents. If a waste contains any of these three constituents along with any other constituents found in F001 - F005, then only the treatment standards for the other constituents apply (i.e., the standards for Carbon Disulfide, Cyclohexanone and Methanol do not apply when other constituents are present)

Reference Number Listing And Universal Treatment Standards

Generator Name: Rosse Lithographing US EPA ID# MOD 9858 05464

	Organic Constitu	nonte.		<u>ა</u>	<u> </u>			Y				
	Chemical Chemical	NWW	l ww	No	Organic Constituents			<del> </del>	Organic Constituents			
	Circinical	IX.W		140	Chemical	NWW	WW	No	Chemical	NW W	ww	
1	A22136	1.4	0.042	59	Chloromethane/Methyl	30	0.19	114	Endosulfan I	0.066	0.023	
2	Acenaphtylene	3.4	0.059	<u>                                      </u>	chloride			115	Endosulfan II	0.13	0.029	
3	Acenaphthene	3.4	0.059	60	2-Chloronaphthalene	5.6	0.055	116	Endosulfan sulfate	0.13	0.29	
5	Acetone Acetonitrile	160 38	0.28	61	2-Chlorophenol	5.7	0.044	117	Endrin	0.13	0.0028	
6	Acetophenone	9.7	5.6 0.010	62	3-Chloropropylene	30	0.036	118	Endrin aldehyde	0.13	0.025	
7	2-Acetylaminofluorene	140	0.010	63	Chrysene o-Cresol	3.4	0.059	119	EPTC	1.4	0.042	
8	Acrolem	NA	0.039	65	m-Cresol .	5.6	0.11 0.77	120 121	Ethyl acetate Ethyl benzene	33	0.34	
9	Acrylamide	23	19	66	p-Cresol	5.6	0.77	122	Ethyl cyanide/	360	0.057	
10	Acrylonitrile	84	0.24	67	m-Cumenyl	1.4	0.056	122	Propanentrile	360	0.24	
11	Aldicarb sulfone ⁶	0.28	0.056	<u> </u>	methylcarbamate ⁶			123	Ethyl ether	160	0.12	
12	Aldrin	0.066	0.021	68	Cyclohexanone	0.75	0.36	124	bis(2-Ethylhexyl)	28	0.28	
13 14	4-Aminobiphenyl Aniline	NA 14	0.13	69	o,p'-DDD	0.087	0.023		phthalate			
15	Anthracene	3.4	0.81 0.059	70	p,p'-DDD	0.087	0.023	125	Ethly methacrylate	160	0.14	
16	Aramite	NA NA	0.039	7 <u>1</u>	o,p'-DDE	0.087	0.031	126	Ethylene oxide	NA.	0.12	
17	alpha-BHC	0.066	0.00014	73	p,p'-DDE o,p'-DDT	0.087	0.031	127	Famphur	15	0.017	
18	beta-BHC	0.066	0.00014	74	p,p'-DDT	0.087	0.0039	128 129	Fluoranthene Fluorene	3.4	0.068	
19	delta-BHC	0.066	0.023	75	Dibenz(a,h)anthracene	8.2	0.0039	130	Formetanate /	3.4	0.059 0.056	
20	gamma-BHC (Lindane)	0.066	0.0017	76	1,2-Dibromo-3-	15	0.11	1.50	hydrochloride ⁶	1.4	0.0.0	
21	Barban ⁶	1.4	0.056		chloropropane			131	Formparanate ⁶	1.4	0.056	
22	Bendiocarb ⁶	1.4	0.056	77	1,2-Dibromoethane/	15	0.028	132	Heptachlor	0.066	0.0012	
23	Bendiocarb phenol ⁶ Benomyl ⁶	1.4	0.056		Ethylene dibromide			133	Heptachlor epoxide	0.066	0.016	
24 25	Benzene	1.4	0.056	78	Dibromomethane	15	0.11	134	Hexachlorobenzene	10	0.055	
26	Benz(a)anthracene	10 3.4	0.14 0.059	79	m-Dichlorobenzene	6.0	0.036	135	Hexachlorobutadiene	5.6	0.055	
27	Benzal chloride	6.0	0.055	80 81	o-Dichlorobenzene p-Dichlorobenzene	6.0 6.0	0.088	136	Hexachlorocyclopenta-	2.4	0.057	
28	Benzo(b)fluoranthene	6.8	0.11	82	Dichlorodifluoromethane	7.2	0.090	137	diene	0.001	0.000000	
29	Benzo(k)fluoranthene	6.8	0.11	83	1.1-Dichloroethane	6.0	0.059	13/	HxCDDs (All Hexachlo- rodibenzo-p-dioxins)	0.001	0.000063	
	Benzo(g.h.i)perylene	1.8	0.0055	84	1,2-Dichloroethane	6.0	0.21	138	HxCDFs (All Hexachlo-	0.001	0.000063	
	Benzo(a)pyrene	3.4	0.061	85	1,1-Dichloroethylene	6.0	0.025		rodibenzofurans)	0.001	0.000003	
32	Bromodichloromethane	15	0.35	86	trans-1,2-Dichloroethylene	30	0.054	139	Hexachloroethane	30	0.055	
33	Bromomethane/Methyl bromide	15	0.11	87	2,4-Dichlorophenol	14	0.044	140	Hexachloropropylene	30	0.035	
34	4-Bromophenyl phenyl	15	0.055	88 89	2,6-Dichlorophenol	14	0.044	141	Indeno (1,2,3-c,d) pyrene	3.4	0.0055	
	ether	13	0.055	89	2,4-Dichlorophenoxyacetic acid/2,4-D	10	0.72	142	Iodomethane	65	0.19	
35	n-Butyl alcohol	2.6	5.6	90	1,2-Dichloropropane	18	0.85	143 144	Isobutyl aclcohol Isodrin	170	5.6	
36	Butylate ⁶	1.4	0.042	91	cis-1,3-Dichloropropylene	18	0.036	145	Isolan ⁶	0.066	0.021	
37	Butyl benzyl phthalate	28	0.017	92	trans-1,3-	18	0.036	146	Isosafrole	2.6	0.036	
38	2-sec-Butyl-4,6-	2.5	0.066		Dichloropropylene			147	Kepone	0.13	0.0011	
20	dinitrophenol/Dinoseb			93	Dieldrin	0.13	0.017	148	Methacrylonitrile	84	0.24	
39 40	Carbaryl ⁶ Carbenzadim ⁶	0.14	0.066	94	Diethylene glycol,	1.4	0.056	149	Methanol	0.75	5.6	
41	Carbofuran ⁶	0.14	0.056	00	dicarbamate ⁶			150	Methapyrilene	1.5	0.081	
42	Carbofuran phenol ⁶	1.4	0.006 0.056	95 96	Diethyl phthalate	28	0.20	151	Methiocarb ⁶	1.4	0.056	
43	Carbon disulfide	4.8	3.8	70	p-Dimethylaminoazo- benzene	NA	0.13	152	Methomyl ⁶	0.14	0.028	
44	Carbon tetrachloride	6.0	0.057	97	2-4-Dimethyl phenol	14	0.036	153 154	Methoxychlor	0.18	0.25	
45	Carbosulfan ⁶	1.4	0.028	98	Dimethyl phthalate	28	0.057	155	3-Methylcholanthrene 4,4-Methylene bis	15 30	0.0055	
46	Chlordane(alpha & gamma	0.26	0.0033	99	Dimetilan ⁶	1.4	0.056		(2-chloroaniline)	30	0.30	
<b> </b>	isomers)			100	Di-n-butyl phthalate	28	0.057	156	Methylene chloride	30	0.089	
47	p-Chloroaniline	16	0.46	101	1,4-Dinitrobenzene	2.3	0.32	157	Methyl ethyl ketone	36	0.28	
48 49	Chlorobenzene Chlorobenzilate	6.0	0.057	102	4,6-Dinitro-o-cresol	160	0.28	158	Methyl isobutyl ketone	33	0.14	
50	2-Chloro-1,3-butadiene	0.28	0.10	103	2,4-Dinitrophenol	160	0.12	159	Methyl methacrylate	160	0.14	
51	Chlorodibromomethane	15	0.057	104	2,4-Dinitrotoluene 2,6-Dinitrotoluene	140	0.32	160	Methyl methansulfonate	NA	0.018	
52	Chloroethane	6.0	0.037	106	Di-n-octyl phthalate	28	0.55 0.017	161 162	Methyl parathion  Metolcarb ⁶	4.6	0.014	
53	bis(2-Chloroethoxy)	7.2	0.036	107	Di-n-propylnitrosamine	14	0.40	163	Mexacarbate ⁶	1.4	0.056	
	methane		f	108	1,2-Dioxane	170	12.0	164	Molinate ⁶	1.4	0.036	
54	bis(2-Chloroethyl)ether	6.0	0.033	109	Diphenylamine	13	0.92	165	Naphthalene	5.6	0.042	
55	Chloroform	6.0	0.046	110	Diphenylnitrosamine	13	0.92	166	2-Naphthylamine	NA NA	0.52	
	bis(2-chloroisopropyl)ether	7.2		111	1,2-Diphenylhydrazine	NA	0.087	167	o-Nitroaniline	14	0.27	
58	p-Chloro-m-cresol 2-Chloroethyl vinyl ether	NA NA		112	Disulfoton	6.2	0.017	168	p-Nitroaniline	28	0.028	
~	- salotowiji velyl culci	NA	0.062	113	Dithiocarbamates(total)6	28	0.028	169	Nitrobenzene	14	0.068	
			<u>.</u>					170	5-Nitro-o-toluidine	28	0.32	

ATTACHE 727 Page 5 of 6

Reference Number Listing And Universal Treatment Standards (continued)

Lithographing USEPAID# MOD985805464

No.	Chemical	NWW	ww	No.	Chemical	NWW	WW	No	Chemical	NWW	ww
171	o-Nitrophenol	13	0.028	201	Propham ⁶	1.4	0.056	231	1,2,3-Trichloropropane	30	0.85
72	p-Nitrophenol	29	0.12	202	Propoxur ⁶	1.4	0.056	232	1,1,2-Trichloro-1,2,2-	30	0.057
173	N-Nitrosodiethylamine	28	0.40	203	Prosulfocarb ⁶	1.4	0.042	1	trifluoroethane		0.037
174	N-Nitrosodimethylamine	17	0.40	204	Pyrene	8.2	0.067	233	Triethylamine6	1.5	0.081
175	N-Nitro-di-n-butylamine	17	0.40	205	Pyridine	16	0.014	234	tris-(2,3-Dibromopropyl)	0.10	0.081
176	N-Nitrsomethylethyl-	2.3	0.40	206	Safrole	22	0.081		phosphate	0.10	0.11
	amine		<u></u>	207	Silvex/2,4,5-TP	7.9	0.72	235	Vernolate ⁶	1.4	0.042
177	N-Nitrosomorpholine	2.3	0.40	208	1,2,4,5-Tetrachlorobenzene	14	0.055	236	Vinyl chloride	6.0	0.042
178	N-Nitrosopiperidine	35	0.013	209	TCDDs (All Tetrachlorodi-	0.001	0.000063	237	Xylenes-mixed isomers	30	0.27
179	N-Nitrosopyrrolidine	35	0.013	1	benzo-p-dioxins)				(sum of o-, m- & p-	50	0.32
180	Oxamyl ⁶	0.28	0.056	210	TCDFs (All Tetrachlorodi-	0.001	0.000063		xylene concentrations)		1
181	Parathion	4.6	0.014		benzofurans)	,					
182	Total PCBs (sum of all	10	0.10	211	1,1,1,2-Tetrachloroethane	6.0	0.057		Inorganic Constitu	ents	
	PCB isomers, or all			212	1,1,2,2-Tetrachloroethane	6.0	0.057	238	Antimony	1.15	1.9
	Aroclors)			213	Tetrachloroethylene	6.0	0.056	239	Arsenic	5.0	1.4
183	Pebulate ⁶	1.4	0.042	214	2,3,4,6-Tetrachlorophenol	7.4	0.030	240	Barium	21	1.4
184	Pentachlorobenzene	10	0.055	215	Thiodocarb ⁶	1.4	0.019	241	Beryllium	1.22	0.82
185	PeCDDs (All Pentachloro-	0.001	0.000063	216	Thiophanate-methyl6	1.4	0.056	242	Cadium	0.11	0.82
	dibenzo-p-dioxins)			217	Tirpate ⁶	0.28	0.056	243	Chromium (Total)	0.60	2,77
186	PeCDFs (All Pentachloro-	0.001	0.000035	218	Toluene	10	0.080	244	Cyanides (Total)	590	1.2
	dibenzofurans)		, i	219	Toxaphene	2.6	0.0095	245	Cyanides (Amenable)	30	0.86
187	Pentachloroethane	6.0	0.055	220	Triallate ⁶	1.4	0.042	246	Fluoride (Amenaoie)	NA NA	35
188	Pentachloronitrobenzene	4.8	0.055	221	Tribromomethane /	15	0.63	247	Lead	0.75	0.69
189	Pentachlorophenol	7.4	0.089		Bromoform		0.05	248	Mercury-Nonwastewater	0.73	NA
190	Phenacetin	16	0.081	222	2,4,6-Tribromophenol	7.4	0.035	240	from Retort	0.20	NA
191	Phenanthrene	5.6	0.059	223	1,2,4-Trichlorobenzene	19	0.055	249	Mercury-All Others	0.025	0.15
192	Phenol	6.2	0.039	224	1,1,1-Trichloroethane	6.0	0.054	250	Nickel	11	3.98
193	o-Phenylendiamine ⁶	5.6	0.056	225	1,1,2-Trichloroethane	6.0	0.054	251	Selenium'	5.7	0.82
194	Phorate	4.6	0.021	226	Trichloroethylene	6.0	0.054	252	Silver	0.14	0.43
195	Phthalic acid	28	0.055	227	Trichloromonofluoro-	30	0.020	253	Sulfide ³	NA NA	14
196	Phthalic anhydride	28	0.055		methane			254	Thallium	0.20	1.4
7	Physostigmine ⁶	1.4	0.056	228	2,4,5-Trichlorophenol	7.4	0.18	255	Vanadium ⁵	1.6	4.3
8	Physostigmine salicylate ⁶	1.4	0.056	229	2,4,6-Trichlorophenol	7.4	0.035	256	Zinc ⁵	4.3	2.61
199	Promecarb ⁶	1.4	0.056	230	2,4,5-Trichlorophenoxy-	7.9	0.72				2.01
200	Pronamide	1.5	0.093	_	acetic acid/2.4.5-T						

**Toxicity Characteristic List** 

D001 - Ignitable characteristic wastes, except for 261.21 (a)(1) High TOC subcategory D001 - High TOC Ignitable characteristic liquids subcategory based on 40 CFR that are managed in Non-CWA/nonCWA equivalent/non class I SDWA systems. 261.21 (a)(1)-greater than or equal to 10% TOC. D002 - Corrosive characteristic wastes that are managed in non-CWA non CWA equivalent, or class / SDWA systems.

	Reference#
D004 - Arsenic	239
D005 - Barium	240
D006 - Cadmium	242
D007 - Chromium	243
D008 - Lead	247
D009 - Mercury	249
D010 - Selenium	251
D011 - Silver	252
D012 - Endrin	117
D013 - Lindane	20
D014 - Methoxychlor	153
D015 - Toxaphene	219
D016 - 2,4-D	89
D017 - 2,4,5-TP Silvex	207
D018 - Benzene	25
D019 - Carbon Tetrachloride	44
D020 - Chlordane	46
D021 - Chlorobenzene	48
D022 - Choloroform	55
D023 - o-Cresol	64

	Reference #
D024 - m-Cresol	65
D025 - p-Cresol	66
D026 - Cresol Mixed Isomers	64, 65 & 66
D027 - p-Dichlorobenzene	81
D028 - 1,2-Dichloroethane	84
D029 - 1,1-Dichloroethylene	85
D030 - 2,4-Dinitrotoluene	104
D031 - Heptachlor Epoxides	133
D032 - Hexachlorobenzene	134
D033 - Hexachlorobutadiene	135
D034 - Hexachloroethane	139
D035 - Methyl Ethyl Ketone	157
D036 - Nitrobenzene	169
D037 - Pentachlorophenol	189
D038 - Pyridine	205
D039 - Tetrachloroethylene	213
D040 - Trichloroethylene	226
D041 - 2,4,5-Trichlorophenol	228
D042 - 2,4,6-Trichlorophenol	229
D043 - Vinyl Chloride	236

Cyanides (Total) and Cyanides (Amenable) for nonwastewaters are to be analyzed using Method 9010 or 9012, found in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA on SW-846, as incorporated by reference in 40 CFR 260.11, with sample size of 10 grams and a distillation time of 1 hour and 15 minutes.

constitutes are not "underlying hazardous constituents" in characteristic wastes, according to the definition at 268.2(I).

Between August 26, 1996, and August 26, 1997, these constituents are not "underlying hazardous constituents" as defined at 268.2(I) of this part.

This constituents is not an underlying hazardous constituent as defined at 268.2(i) of this part because its UTS level is greater than its TC level, thus a treated selenium waste would be characteristically hazardous, unless it is treated to below its characteristic level.